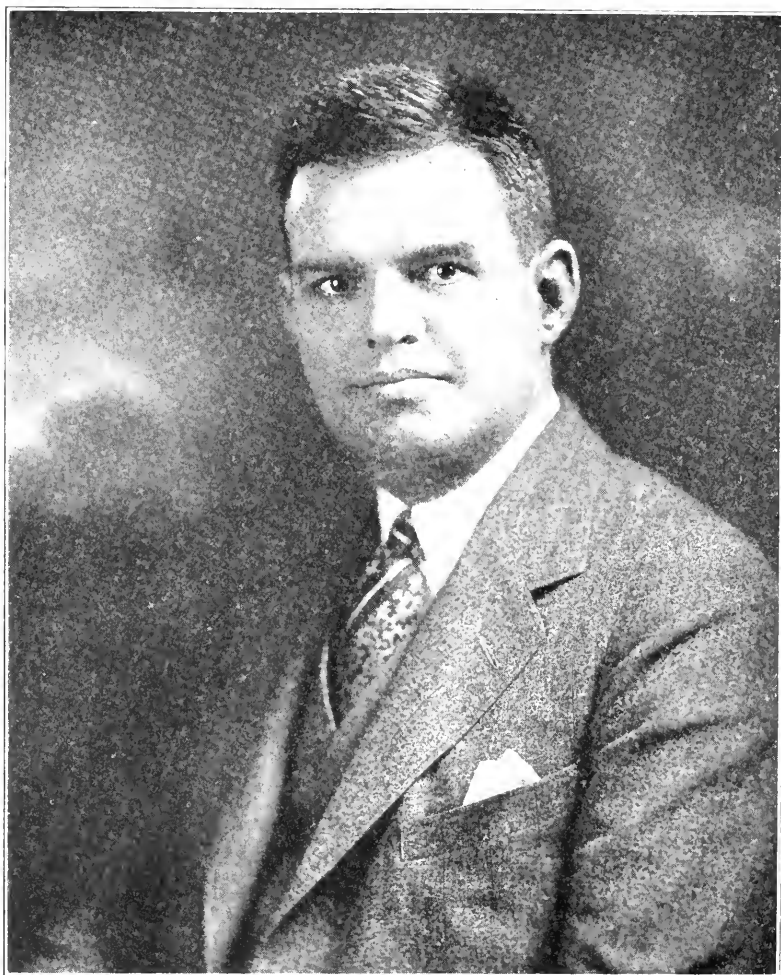


Year Book
OF
THE NATIONAL ASSOCIATION OF
COTTON MANUFACTURERS

1929

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LINCOLN BAYLIES

President, 1928-29

Year Book
of
**THE NATIONAL ASSOCIATION OF
COTTON MANUFACTURERS**

1929



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THE NATIONAL ASSOCIATION OF COTTON MANUFACTURERS

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Year Book
of
**THE NATIONAL ASSOCIATION OF
COTTON MANUFACTURERS**

1929

FOREWORD

The Year Book of The National Association of Cotton Manufacturers has attained a wider distribution than ever before in its history, and is used as a reference book literally throughout the cotton manufacturing world. This success has been attained through the co-operation of members in furnishing data and statistics, and by the labors of your Technical and Statistical Committees. Through the untiring supervision of our Secretary, Mr. Russell T. Fisher, these accumulated facts and figures have been put together into readily accessible form. Any constructive suggestions for the Year Book or contributions to its contents will be gratefully welcomed.

LINCOLN BAYLIES,
President.

PREFACE

In preparing this, the twelfth edition of the Year Book, the same general policies that have controlled the previous editions have been followed. More new material has been added this year than in several years, as the year 1928 marked the inauguration of several new reports of special interest to the cotton manufacturer. Of the new material it is suggested that the reader study with considerable care the domestic consumption of cotton by grade and staple for the year ending July 31, 1928, and the grade and staple report for the 1928-29 cotton crop. For the first time the cotton manufacturer has a detailed picture of the particular parts of the crop in which he is interested.

The data from the Census of 1927 are more descriptive of the industry, as they include not only more subdivisions by classes of fabrics, but divide the production of cloth into groups of fabrics with yarn numbers averaging 40's and below and above 40's.

Any credit that the Year Book may be due should be given to your entire staff, as the book represents their combined labors. As in the past we earnestly solicit your criticisms and suggestions for future editions.

RUSSELL T. FISHER,
Secretary.

CHARTER

No. 6091

Commonwealth of Massachusetts

BE IT KNOWN that whereas, EDWARD W. THOMAS, C. J. H. WOODBURY, WILLIAM J. KENT, F. M. MESSENGER, HARRY T. WHITIN, ARTHUR H. LOWE, ALBERT F. KNIGHT, ALFRED M. GOODALE, FRED C. McDUFFIE and GEORGE W. BEAN have associated themselves with the intention of forming a corporation under the name of the NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION, for the purpose of encouraging scientific investigation and experiment as to the methods of manufacturing cotton; collecting and imparting information relating to this industry; promoting social intercourse among its members; and establishing and maintaining a library of works on textiles in the city of Boston, and have complied with the provisions of the Statutes of this Commonwealth in such case made and provided, as appears from the certificate of the President, Treasurer and Directors of said corporation, duly approved by the Commissioner of Corporations, and recorded in this office.

Now, Therefore, I, WILLIAM M. OLIN, Secretary of the Commonwealth of Massachusetts, do hereby certify that said EDWARD W. THOMAS, C. J. H. WOODBURY, WILLIAM J. KENT, F. M. MESSENGER, HARRY T. WHITIN, ARTHUR H. LOWE, ALBERT F. KNIGHT, ALFRED M. GOODALE, FRED C. McDUFFIE and GEORGE W. BEAN, their associates and successors, are legally organized and established as and are hereby made an existing corporation under the name of the

NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION,

with the powers, rights and privileges, and subject to the limitations, duties and restrictions which by law appertain thereto.

*Seal of the
Commonwealth
of
Massachusetts* Witness my official signature hereunto subscribed, and the seal of the Commonwealth of Massachusetts hereunto affixed this first day of December, in the year of our Lord one thousand eight hundred and ninety-four.

WILLIAM M. OLIN,
Secretary of the Commonwealth.

Commonwealth of Massachusetts

(Acts of 1895, Chap. 163.)

AN ACT TO AUTHORIZE THE NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION TO HOLD ITS MEETINGS WITHOUT THE COMMONWEALTH.

Be it enacted, etc., as follows:

SECTION 1. The New England Cotton Manufacturers' Association is hereby authorized to hold its meetings in any state or territory of the United States and in the District of Columbia; provided, however, that its annual meeting shall be held in this Commonwealth at least once in five years.

SECTION 2. This act shall take effect upon its passage. [Approved March 23, 1895.]

No. 252

Commonwealth of Massachusetts

BE IT KNOWN that whereas

NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION

a corporation organized under the laws of this Commonwealth and subject to the provisions of chapter one hundred and twenty-five of the Revised Laws has complied with the provisions of chapter one hundred and nine of the Revised Laws, as appears from the certified copy of the order of the Commissioner of Corporations, authorizing said corporation to change its name and adopt the name of

THE NATIONAL ASSOCIATION OF COTTON MANUFACTURERS, and the certificate of the Vice President and Acting President, Treasurer and Directors of said corporation duly filed in this office pursuant to the provisions of section ten of the aforesaid chapter one hundred and nine of the Revised Laws.

NOW, THEREFORE, I, William M. Olin, Secretary of the Commonwealth of Massachusetts, DO HEREBY CERTIFY, that the name which said corporation shall bear is

THE NATIONAL ASSOCIATION OF COTTON MANUFACTURERS, which shall hereafter be its legal name.

Seal of the Commonwealth of Massachusetts WITNESS my official signature hereunto subscribed, and the Great Seal of the Commonwealth of Massachusetts hereunto affixed this twenty-fifth day of June in the year of our Lord one thousand nine hundred and six.

WM. M. OLIN,
Secretary of the Commonwealth.

THE NATIONAL ASSOCIATION OF COTTON MANUFACTURERS

SUCCESSOR TO
NEW ENGLAND COTTON MANUFACTURERS' ASSOCIATION

FOUNDED 1854
INCORPORATED DECEMBER 1, 1894

CONSTITUTION AND BY-LAWS (Revised, November 1, 1923)

I NAME

The name is THE NATIONAL ASSOCIATION OF COTTON MANUFACTURERS.

II QUALIFICATIONS OF MEMBERS

Active Members

1. Any person who is actively engaged as President, Treasurer, Agent, Superintendent, or Manager in the manufacture, printing, or finishing of cottons shall be eligible for active membership.

Associate Members

2. Any person engaged in the manufacture of cotton or cotton fabrics, or the manufacture of textile machinery, or industries kindred to the cotton manufacture, shall be eligible for associate membership.

3. This class of membership shall be entitled to attend the meetings of the Association and participate in its proceedings without the right to vote except by permission from the Board of Government or by vote of the Association.

Sustaining Members

4. Any firm or corporation actively engaged in manufacturing, bleaching, printing, or finishing of cotton, or any firm or corporation actively engaged in a business contributory to the cotton manufacturing industry, shall be eligible for sustaining membership.

5. The executive head of a firm or corporation, so elected, or any duly authorized representative thereof, shall represent its sustaining membership in the Association.

6. Sustaining members shall enjoy the full privilege of active membership and in addition shall be entitled to such direct service as the Association may be able to render by its technical and statistical or other departments under such regulations as the Board of Government may prescribe.

Honorary Members

7. Honorary members shall be recommended by the Board of Government and may be elected at any duly called meeting of the Association. They shall be entitled to attend the meetings of the Association and participate in its proceedings without the right to vote. No person actively engaged in cotton manufacture shall be eligible to such membership.

Life Members

8. Any active or associate member by the single payment of a sum equal to ten times the amount of his annual dues, shall be exempt from all future payment of dues and shall become a life member and shall have all the privileges to which his class of membership is entitled.

9. The minimum dues for a life member shall be one hundred dollars.

10. All moneys thus paid shall be invested as a permanent fund by the Treasurer, acting under the direction of the Board of Government, of which the income only shall be subject to appropriation for current expenses.

Technical Members

11. Any person over twenty-five years of age (except those designated under Article II, Sections 1 and 2) engaged in the manufacture, bleaching, printing, finishing, or distribution of cotton products; or in any industry contributory to cotton manufacture, including the manufacture and installation of cotton machinery; or who is employed in a school or college giving instruction in the manufacture of cotton goods and accessory industries; or by a technical laboratory or textile engineering organization, shall be eligible to technical membership.

Junior Technical Members

12. Any junior or senior student of a school or college giving instruction in textile manufacture, or any employee, under twenty-five years of age and not a textile school graduate, engaged in the supervision of cotton manufacture, bleaching, printing, or finishing, shall be eligible as a junior technical member. A student junior technical member upon graduation, and an employee junior technical member upon attaining his twenty-fifth birthday, shall automatically become a technical member of the Association and

shall be subject to the same conditions and receive the same privileges as other technical members.

13. It shall be the duty of all members of the Association to make returns to the Secretary of such statistics as may be called for by him, under the direction of any committee duly appointed for the collection of statistics, when not incompatible with private interests.

III

OFFICERS

1. The officers shall be a President, two Vice Presidents, fifteen Directors, a Treasurer, and a Secretary.

2. The PRESIDENT, and in his absence a VICE PRESIDENT, shall preside at all meetings of the Association and of the Board of Government.

3. The TREASURER, or a deputy whom he may appoint with the approval of the Board of Government, shall collect all moneys due the Association and disburse the same in accordance with the action of the Board of Government. He shall keep an accurate account of all receipts and expenditures and present a full account of the finances of the Association at the annual meeting in each year, or whenever called for by the Board of Government. He shall act as trustee of the permanent funds of the Association.

4. The SECRETARY shall attend all meetings of the Association and the Board of Government and keep accurate records of their doings. In the absence of the Secretary at any meeting, a Secretary pro tem may be appointed by the presiding officer, who shall be sworn to do all things, while in office, required of the Secretary.

5. Any officer who shall unreasonably absent himself from three consecutive meetings of the Board of Government of which he is a member, or shall otherwise neglect or refuse to perform the duties of his office, may be removed from office at any regular meeting of the Board of Government by a vote of a majority of the members present and voting thereon, a notice of such proposed action to be sent to him by mail at least one week previous to the meeting.

IV

BOARD OF GOVERNMENT

1. The President, Vice Presidents, and Directors, in addition to the Presidents who have held office during six years previous to the annual meeting of any year, shall constitute a BOARD OF GOVERNMENT and have under its care and direction all matters pertaining to the management of the Association.

2. Meetings of the Board may be called by the President at such time and place as he may deem expedient, giving each member a written or printed notice of the same at least five days before the day of the meeting.

3. At the first meeting of the Board after the Annual Meeting, a Treasurer, a Secretary, and an Auditor of Accounts for the year

ensuing shall be elected. The Board shall also fix the amount of the compensation of the Secretary at this meeting.

4. All vacancies in the Board, occasioned by death, resignation, or removal, shall be filled by the Board; and the persons so elected shall hold their offices until the next Annual Meeting, except as provided in Article III, Section 5.

5. At the first meeting of the Board, or as soon after as practical, the President, with its approval, shall appoint from its membership an Executive Committee of seven, which shall exercise authority in such matters as may be delegated to it by the Board. The President shall be Chairman of this Committee.

6. The President shall appoint from the general membership of the Association such other committees as in his judgment can most effectively serve its needs and interests. All committees so appointed shall report their conclusions, whenever the particular matter dealt with involves the policy of the Association or the expenditure of money, to the Board of Government.

7. The Auditor shall examine the accounts of the Treasurer annually, and report at the annual meeting his findings.

8. No committee or member thereof shall make public any matter in connection with the work of the Association without the approval of the Board of Government.

9. Seven members shall constitute a quorum for the transaction of business.

V

MEETINGS

1. The Annual Meeting of the Association shall be held the last Wednesday in October, or at such other time and at such hour and place as the Board of Government shall appoint.

2. The Board of Government shall arrange for a Semi-Annual Meeting of the Association to be held in April or at such other time and at such hour and place as the Board of Government shall appoint.

3. Special meetings shall be called by the Board of Government whenever it deems it expedient or upon written application of any fifty members to the Secretary.

4. All meetings of the members of the Association shall be in pursuance of a written or printed notice, addressed to each member, with the name of the President, or Secretary, attached thereto, and deposited in the Post Office ten days at least before the day of meeting, specifying the time and place of meeting; and at all such meetings twenty-five members shall constitute a quorum for the transaction of business.

VI

ELECTIONS

1. At each Annual Meeting there shall be chosen by ballot, a President, a first Vice President, a second Vice President, and five Directors; the President and Vice Presidents to serve one year and

the five Directors for terms of three years unless sooner removed, as hereinbefore provided.

2. No Director, elected as such, who has to his credit six years of consecutive service, shall be eligible for re-election until one year after the completion of such service.

3. The officers shall hold their respective offices until their successors shall be chosen and accept their positions.

VII

ELECTION OF MEMBERS

All nominations for membership of any class in the Association shall be made in writing and presented to the Board of Government for action thereon. Upon favorable action by the Board of Government the nominee shall become a member upon the payment, within thirty days, of the initiation fee and dues of his class.

VIII

ENTRANCE FEES, DUES AND ASSESSMENTS

1. The admission fee for active members shall be ten dollars and the payment of annual dues not exceeding ten dollars.

2. The admission fee for associate members shall be twenty-five dollars and the annual assessment shall be double the sum annually voted for active members.

3. The annual assessment for sustaining members shall be at the rate of twenty-five cents for each one thousand dollars of yearly payroll paid by such firm or corporation during the previous year in all its departments actively engaged in the manufacture of cotton goods or in contributory industries; provided that no annual assessment shall be less than fifty or more than five hundred dollars. There shall be no initiation fee for sustaining members.

4. Honorary members shall not be subject to payment of admission fees or assessments.

5. The admission fee for technical members shall be ten dollars and the annual dues five dollars.

6. Junior technical members shall pay no admission fee and the annual dues shall be three dollars.

7. Dues in the active, associate, technical, and junior technical membership classes shall be paid in advance on the first day of January of each year. The annual assessment for sustaining members is payable in advance upon the anniversary of such membership.

8. Any member failing to pay two successive assessments shall cease to be a member at the end of six months from the date when such second assessment shall become due.

IX

RESIGNATIONS

Any member may withdraw from the Association upon payment of all arrearages, first giving notice of his intention to do so, in writing, to the Secretary, and the Board of Government may accept such resignation.

X

SUSPENSION OR EXPULSION

Any member may be suspended or expelled for cause at any duly called meeting of the Board of Government by a two-thirds vote of the members present, provided he has been notified of the charges against him and an opportunity given him to appear in his defense.

XI

NATIONAL COUNCIL OF AMERICAN COTTON MANUFACTURERS

1. The Board of Government may co-operate with the American Cotton Manufacturers' Association in matters of national scope and importance through the National Council of American Cotton Manufacturers (composed of representatives of The American Cotton Manufacturers' Association and an equal number from this Association) in such manner and to such an extent as it may from time to time determine to be for the best interests of the cotton manufacturing industry, and may delegate to the Council authority to act for this Association on such matters of national importance as may be mutually agreed upon by the Boards of Government of the constituent associations.

2. The representatives of this Association in the National Council shall be the seven following: The President of the Association (ex-officio), the last three living past presidents (ex-officiis), and three others elected by the Board of Government from the sustaining membership of the Association. At the first election under this article, the Board of Government shall elect representatives to serve one, two, and three years, respectively. Thereafter one representative shall be elected each year to serve a term of three years.

3. The Board of Government, from the moneys received as dues from sustaining members, may contribute to the National Council for the support of its work at such times and in such manner as may be deemed necessary or desirable by a majority of the Board of Government.

XII

AMENDMENTS

Amendments to the Constitution and By-Laws may be made at any duly called meeting of the Association by a two-thirds vote; provided, notice of such proposed amendment be given in writing at a previous meeting, and also notice be given to each member by the Secretary, of the pendency of such amendment, ten days at least before any such meeting.

BOARD OF GOVERNMENT

1929

PRESIDENT

LINCOLN BAYLIES BOSTON, MASS.

VICE PRESIDENTS

PHILIP DANA WESTBROOK, ME.
IRVING SOUTHWORTH LAWRENCE, MASS.

DIRECTORS

Term expires 1929

S. HAROLD GREENE BOSTON, MASS.
ERNEST N. HOOD SALEM, MASS.
FRANK I. NEILD NEW BEDFORD, MASS.
FRED W. STEELE NEW BEDFORD, MASS.
DEXTER STEVENS ESMOND, R. I.

Term expires 1930

W. IRVING BULLARD BOSTON, MASS.
JOHN L. BURTON NEW BEDFORD, MASS.
B. H. BRISTOW DRAPER HOPEDALE, MASS.
JOHN S. LAWRENCE BOSTON, MASS.
E. KENT SWIFT WHITINSVILLE, MASS.

Term expires 1931

AMORY COOLIDGE BOSTON, MASS.
JOHN H. HOLT FALL RIVER, MASS.
CHARLES E. INCHES BOSTON, MASS.
HENRY G. NICHOLS BOSTON, MASS.
WALTER WHIPPLE NASHUA, N. H.

FORMER PRESIDENTS EX-OFFICIIS

MORGAN BUTLER NEW BEDFORD, MASS.
ROBERT AMORY BOSTON, MASS.
WILLIAM B. MACCOLL PAWTUCKET, R. I.
G. EDWARD BUXTON PROVIDENCE, R. I.

TREASURER

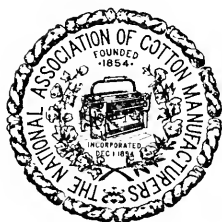
W. IRVING BULLARD BOSTON, MASS.

SECRETARY

RUSSELL T. FISHER BOSTON, MASS.

STATISTICAL — TECHNICAL
AND MEMBERSHIP

1929



STATISTICAL

FOREWORD

We have for many years appreciated the ever-increasing value resulting to our industry from careful analyses of statistical records.

In addition to a most complete accumulation of such records as are presented annually in our Year Book, the mill executive is today furnished through the medium of The Association of Cotton Textile Merchants of New York and The Cotton-Textile Institute, additional detailed figures at regular intervals to guide his plant operation throughout the year.

There are still, however, pertinent indications that we have not taken full advantage of the benefits that may be derived from a constant study of these statistics.

This fact is vividly brought before us by these compilations which clearly indicate a continuity of over production at high cost throughout the industry during the past few years.

It is unlawful and would be unethical to attempt in any way to control directly prices at which our products are sold, but it is possible that profitable operation might be more closely approached through the control of our purchases, sales and production as governed by our statistical position.

With a full appreciation of the vital importance that must be attached to such records at this time, your committee has endeavored to set forth in the Year Book of 1929 such information as we feel gives the most complete picture available in the industry, and we trust you will find it of exceeding value and have occasion to refer to it constantly during the coming year.

GEORGE W. SUMMERSBY, *Chairman,*
Statistical Committee.

Acknowledgment of Co-operation

The preparation of the Statistical Section of this Year Book has been made possible by the generous co-operation of many governmental authorities in this country and abroad, and many firms and individuals in the cotton trade throughout the world. Special acknowledgment is due the Bureau of the Census and Bureau of Foreign and Domestic Commerce, especially, Textile Division, of the United States Department of Commerce; Weather Bureau, Bureau of Agricultural Economics, and Bureau of Entomology of the United States Department of Agriculture; Bureau of Labor Statistics and Women's Bureau of the United States Department of Labor; Egyptian Ministry of Agriculture; Egyptian Ministry of Finance; Indian Department of Statistics; British Board of Trade; New York Cotton Exchange; New Orleans Cotton Exchange; Liverpool Cotton Association; Alexandria General Produce Association; New York *Daily News Record*; *Textile World*; Comtelburo Ltd.'s Annual Cotton Hand Book; Shepperson's Cotton Facts; Merchants National Bank of Boston; International Federation of Master Cotton Spinners' and Manufacturers' Association; Japan Cotton Spinners' Association; Sanford & Kelley, New Bedford, Mass.; G. M. Haffards & Company, Fall River, Mass.; Frederick B. Macy & Company, New Bedford, Mass.; J. M. Prendergast & Co., Boston, Mass.; The Viscose Co., New York City, N. Y.; Silk Association of America, New York City, N. Y.; Garside Cotton Service, Boston, Mass.; Association of Cotton Textile Merchants of New York, New York City, N. Y., and The Cotton-Textile Institute, Inc., New York City, N. Y.

Review of Last Seven American Cotton Crops

1928. The final ginning figures place the 1928 crop as 14,373,000 running bales, or approximately 1,658,000 bales more than the ten-year average of 12,715,000, but 3,382,000 bales less than the peak year of 1926.

For the second successive year, the Government estimates showed little variation throughout the crop reporting season, varying from a high of 14,439,000 bales as of September 1, to a low of 13,993,000 as of October 1.

Early season private estimates forecast an increase in acreage that was substantiated by the Bureau of the Census report of 46,695,000 acres under cultivation on July 1, as compared to 42,112,000 acres in 1927.

Weevil damage, as was predicted when the season turned out to be a little late in starting, increased materially over recent years, and was estimated to have destroyed 14.1 per cent of the crop.

Two new reports were inaugurated by the Bureau during the season, — the domestic consumption by grade and staple for year ending July 31, 1928, and the grade and staple of the crop as ginned. These reports should be of value in determining the relative amount of cotton, available for consumption, of the several grades and staples.

These reports show that the grade of the crop was unusually high, with approximately 10,000,000 bales middling or better. It also emphasized the continued deterioration in the length of staple.

Private estimates on yield throughout the season tended to be higher than those of the Bureau, but not sufficiently different to cause violent fluctuations in price on the Government publication days.

1927. It was apparent early in the season that the 1927 cotton crop would be materially less than the record-breaking crop of 1926. The early private estimates of the acreage varied considerably, and it was not until the Government report of July 9 of 42,683,000 acres, a decrease of about 6,000,000 acres from the previous year, that there was a real basis on which to base estimates.

The Government estimates showed little variation throughout the entire crop-reporting season, varying less than a million bales from the first estimate of 13,492,000 bales as of August 1 to the last estimate of 12,784,000 as of December 1. Probably no crop estimates have been more nearly accurate throughout the season than the Government estimates of 1927, the final ginning report of March 20 showing a yield

of 12,777,505 bales. The private estimates tended to be higher than the Government estimates throughout the season.

The devastating flood of the Mississippi River, coming as it did at the planting season, caused much uncertainty in the amount of land available for staple cotton.

Planting over a large part of the area followed immediately after the recession of the flood, but because of the lateness of the planting it was reported that some growers substituted short staple, early maturing seed in place of the usual seed.

The crop from the flooded area was approximately one and one-half million bales less than the previous season.

Heavy weevil infestation was reported particularly in the eastern part of the Belt. Weevil damage, however, was not as severe as in some of the previous seasons.

The average grade of the crop was high, and as a result the low grades brought a relatively higher price than in 1926, when the large crop of low-grade cotton depressed the price of the low grades.

One of the unusual incidents of the season was the publishing of a report by the Department of Agriculture in September that the level of cotton price was too high, and predicting that there probably would be a drop in the price of cotton. This prediction caused an immediate drop in the price.

The Department of Agriculture again changed its method of reporting, confining itself to monthly estimates from August to December, inclusive, doing away with the estimates of high, low and average of the previous year.

1926. The cotton crop of 1926 was the largest in history. The March ginning report shows a total of 17,687,607 bales, or approximately one and one-half million bales more than the previous high. This figure may be increased slightly, as picking was still going on at the time of the ginning report.

The growing season of 1926 was one of contradictions. Due to weather conditions the crop as a whole was from one to three weeks late, and throughout June, July and August there were alternate reports of too much or too little rain.

A new pest, the cotton flea or hopper, at one time was thought to be a serious menace, but did not prove to be. The army worm infested a large area in Texas and was thought to have done irretrievable damage, but the stripping of the leaves from the plants apparently helped the crop by letting the sun through on to the lower bolls so that there was a very uniform maturity with a comparatively high yield.

A large crop was indicated in the Government report of June 25 with 48,898,000 acres in cultivation. The early season reports pre-

dicted a crop of from fifteen to fifteen and one-half million bales, and as late as the last of September private reports averaged around fourteen and three-fourths million bales.

The reported insect damage and unfavorable weather in addition to the light ginnings up to the last of September seemed to substantiate the private reports. It was not until the October 18 Bureau report, when the estimate jumped to 17,454,000 bales, that the real size of the crop was apparent.

Sledge cotton became an appreciable factor for the first time, and large quantities of cotton, too low in grade to be tenderable on contract, resulted. The crop as a whole was low grade due to the weather conditions but was unusually free from tinges and stains due to the late frost. One of the unusual features of the season was the inauguration by the Bureau of a high, low, and average estimate in the cotton crop reports.

1925. The planting season of 1925 started favorably, and a very large acreage was planted to cotton throughout the South. In fact, the acreage planted in 1925 established a new record, the Government estimate of June 25 giving a figure of 46,448,000 acres. Later developments were less favorable, however, and considerable replanting became necessary in certain sections.

In midsummer a large part of the western half of the belt began to suffer from lack of moisture. The drought which was especially serious in southern Texas was not relieved until fall, so that over a considerable area the crop was practically a failure and many fields were completely abandoned. Outside of this southwestern territory, which was affected by abnormally light rainfall, the crop progressed satisfactorily in practically all sections.

The rather hot and dry weather which prevailed during a large part of the season aided in keeping the weevil in check, so that comparatively little damage was suffered from this cause.

The large acreage planted permitted and made possible a satisfactory crop in spite of the failure of some relatively limited areas. The March ginning report indicates a crop of 16,103,586 bales, the largest in ten years. One outstanding feature of the year's growth was the very large quantities of low grades produced, especially in some sections where replanting had made the crop late.

1924. The crop of 1924 was one of surprises. The planting season was wet and cold. Many growers feared this would counteract the effects of the cold weather which had greatly reduced the number of boll weevils. May, however, proved a favorable month, and the record-breaking acreage planted (41,390,000) gave rise to hopes of a large crop.

June marked the beginning of a long drought which persisted in nearly all sections throughout the season. The crop withstood the dry weather satisfactorily as a result of the ample moisture in the soil. As the season progressed favorable conditions caused both Government and private forecasts of the crop to be increased steadily. The much-discussed semi-monthly forecasts of the Department of Agriculture were inaugurated during the season of 1924.

The fall weather proved nearly ideal for harvesting the crop, and picking and ginning were carried on at a record pace. The March ginning report shows a crop of 13,618,751 bales, the largest crop in ten years. This figure indicates a yield of 162 pounds per acre as compared with the five-year average yield of 147 pounds per acre.

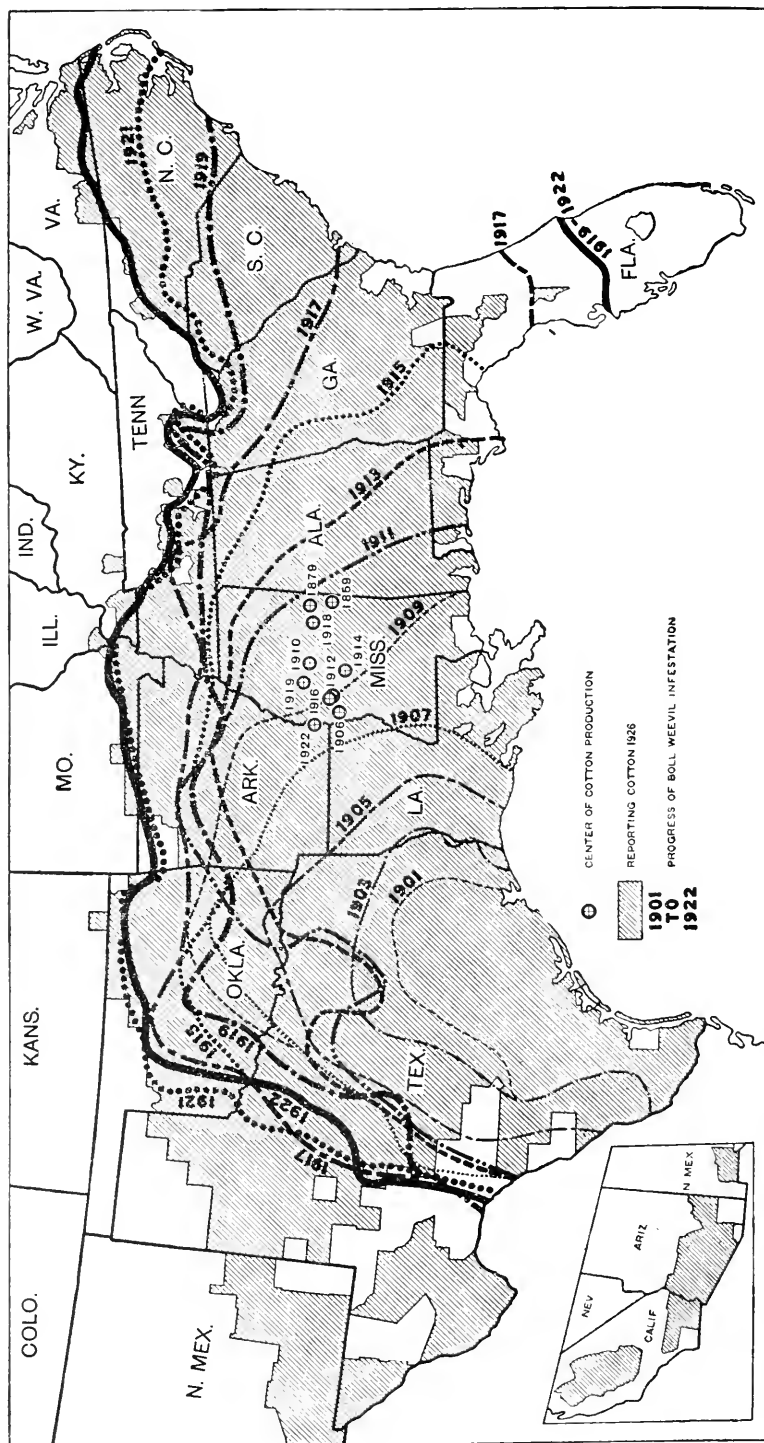
The boll weevil, a factor of utmost importance in previous years, did not play an important part in 1924. The cold winter and dry summer conspired to reduce the number of weevils very materially. The small amount of weevil damage and the large acreage planted were the outstanding features of the year's cotton crop.

1923. The tremendous acreage of 38,287,000 was under cultivation on June 25, as it was expected the world would readily consume a large crop after the small production of the two previous years. Unfortunately weather conditions were not propitious. A season which promised to be early turned out late. Much rain fell in the East during August, and the temperature was below normal. In the West, especially Texas and Oklahoma, a severe drought extended through July and August. The Government forecast fell from 11,412,000 bales on June 25 to 10,081,000 in December. The March report of cotton ginned was 10,128,478 bales of 500 pounds each, and indicates a yield of 128.8 pounds per acre, based on 37,420,000 acres harvested. It seems weather conditions and not the boll weevil should be emphasized in discussing the 1923 crop. The weevil can be controlled, but the weather cannot. The weather, furthermore, is the supreme factor in raising cotton, and it must be acknowledged that in recent years excessive rain and drought have been to a great extent determining causes of small production.

1922. The boll weevil held the centre of the stage during 1922. It was hoped that after the small 1921 crop, 1922 would bring a pre-war normal, or at least one around 12,000,000 bales, but on June 25 the Government forecast of 11,065,000 bales and 34,016,000 acres, and a month later of 11,449,000 bales dampened this somewhat. The season, however, was late, and heavy rains and low temperatures kept the crop back. Replanting was necessary in many instances and caused the weevil to be even more formidable as the advantage to be gained by an early start was lost. Drought in the Western States which mitigated

against the pest also affected the crop seriously, so that hopes for a fair yield per acre were soon dissipated. The critical months of July and August brought an unusual condition. Would the poorly rooted crop resulting from a wet spring be damaged by hot weather unfavorable to the weevil? The answer was a split between hot weather damage in the Southwest and the boll weevil in the East. As a result the crop estimate fell to 10,575,000 bales on August 25 and to 10,135,000 on September 25. Picking and ginning were rapid, and growers were disposed to sell just as rapidly, so the crop came on the market speedily. The December forecast of 9,964,000 caused further disappointment. Actual production amounted to 9,762,069 bales from 33,036,000 acres, or a yield of 141.5 pounds per acre.

The American Cotton Belt



American Cotton, 1924-1928

[Quantities in bales of lint cotton ¹]

CALENDAR YEAR	Exports	Domestic Consumption	Spindles Active, Thousands ²	Spindle-Hours Operated in Millions ²	Per Cent of Single-shift Capacity ²	RANGE OF SPOT COTTON PRICES	
						Low	High
1924	6,794,786	5,521,662	31,109	6,696	78.3	22.15	35.30
1925	8,526,864	6,422,748	32,621	7,841	92.7	19.15	26.05
1926	9,048,312	6,683,949	32,350	8,082	95.4	12.15	21.25
1927	9,423,982	7,405,021	32,547	8,704	104.7	12.80	23.90
1928	8,654,919	6,572,695	29,973	7,728	95.5	19.18	20.93
January, 1928	728,935	582,417	31,698	8,259	101.5	17.95	19.85
February, 1928	634,890	573,810	31,687	7,969	101.2	17.45	19.05
March, 1928	614,428	581,318	31,413	8,312	96.8	18.70	20.00
April, 1928	485,219	525,158	30,965	7,416	94.8	19.80	22.15
May, 1928	591,345	577,710	29,060	7,959	95.0	20.95	22.30
June, 1928	457,781	510,565	28,624	7,248	88.3	20.65	23.10
July, 1928	341,849	438,743	28,228	6,259	79.8	20.45	22.85
August, 1928	259,489	526,729	28,243	7,431	87.7	18.55	20.40
September, 1928	814,569	492,221	28,227	6,961	90.6	17.65	19.60
October, 1928	1,240,702	618,788	30,315	8,694	103.9	19.05	20.20
November, 1928	1,427,699	610,884	30,597	8,524	108.1	19.00	21.00
December, 1928	1,058,013	534,352	30,622	7,711	99.1	20.00	20.65

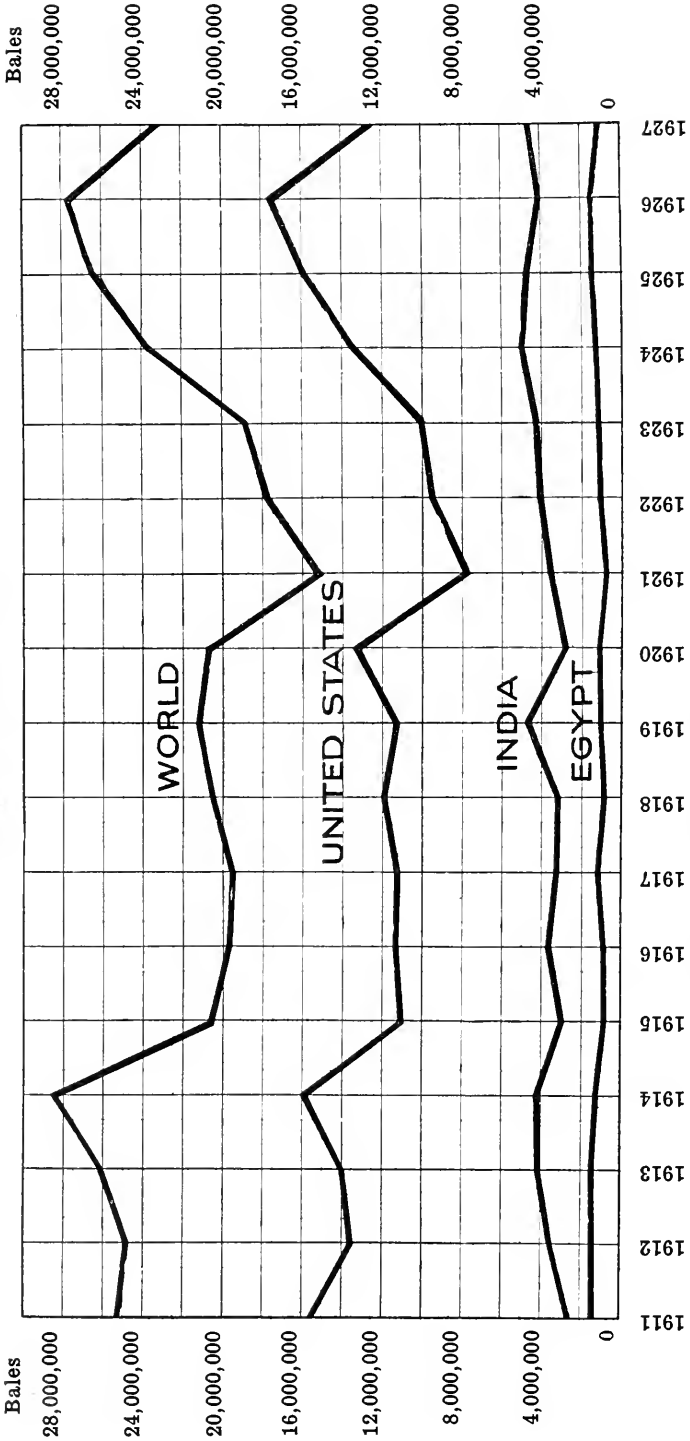
¹ Except exports, which include linters.

² Monthly average.

Season Dates

	Cotton Year	Import and Export Year	Fiscal Year
United States	Aug. 1-July 31	Calendar	July 1-June 30
Egyptian	Aug. 1-July 31	Calendar	May 1-Apr. 30
Brazilian	Jan. 1-Dec. 31	Calendar	Jan. 1-Dec. 31
Indian	Sept. 1-Aug. 31	Apr. 1-Mar. 31	Apr. 1-Mar. 31
Japanese	Jan. 1-Dec. 31	Calendar	Apr. 1-Mar. 31

World Cotton Production



The above chart is based on the table on the following page.

World Production of Cotton

[In bales of 478 pounds net]

Source: United States Department of Agriculture

COTTON YEAR	United States ¹	India	Russia	Egypt	China	Brazil	Mexico	Peru	All Other Countries	Total
1911-12	15,693,000	2,730,000 ²	969,000	1,530,000	3,437,000 ³	300,000 ⁴	160,000	96,000	441,000	25,356,000
1912-13	13,703,000	3,702,000 ²	946,000	1,554,000	3,931,000 ³	348,000 ⁴	240,000	112,000	507,000	25,043,000
1913-14	14,156,000	4,239,000 ²	1,026,000	1,588,000	4,000,000 ³	397,000 ⁴	205,000	133,000	515,000	26,259,000
1914-15	16,135,000	4,359,000 ²	1,270,000	1,337,000	4,500,000	387,000 ⁴	108,000	129,000	462,000	28,687,000
1915-16	11,192,000	3,128,000 ²	1,512,000	989,000	3,000,000 ³	282,000	95,000	113,000	378,000	20,689,000
1916-17	11,456,000	3,759,000 ²	1,199,000	1,048,000	1,534,000	281,000	103,000	127,000	344,000	19,845,000
1917-18	11,392,000	3,393,000 ²	634,000	1,304,000	2,092,000	345,000	135,000	125,000	345,000	19,675,000
1918-19	12,041,000	3,328,000 ²	161,000	999,000	3,053,000	339,000	203,000	142,000	347,000	20,613,000
1919-20	11,421,000	4,853,000 ²	81,000	1,155,000	2,599,000	506,000	199,000	155,000	415,000	21,384,000
1920-21	13,440,000	3,013,000 ²	58,000	1,251,000	1,883,000	370,000	188,000	164,000	508,000	20,875,000
1921-22	7,954,000	3,748,000 ²	43,000	902,000	1,517,000	505,000	147,000	157,000	357,000	15,330,000
1922-23	9,729,000	4,220,000 ²	55,000	1,259,000	1,360,000 ⁵	535,000	178,000	190,000	430,000	17,926,000
1923-24	10,171,000	4,400,000 ²	260,000	1,289,000	1,420,000 ⁵	575,000	138,000	201,000 ⁵	582,000	19,036,000
1924-25	13,639,000	5,100,000 ²	453,000	1,450,000	1,320,000 ⁵	605,000	280,000	200,000 ⁵	789,000	23,836,000
1925-26	16,123,000	4,845,000 ²	737,000	1,610,000	1,400,000 ⁵	602,000	202,000	185,000 ⁵	974,000	26,678,000
1926-27	17,755,000	4,230,000 ²	755,000	1,095,000	1,335,000 ⁵	449,000	360,000	245,000 ⁵	988,000	27,812,000
1927-28	12,783,000	4,715,000 ²	983,000	1,215,000	1,930,000 ⁵	492,000	168,000	215,000 ⁵	869,000	23,370,000

¹ Running bales from 1922 to date.

² Total Indian production.

³ Estimates which include production in the most important provinces where the commercial crop is grown.

⁴ Unofficial.

⁵ Consists of cotton exported and cotton consumed in spinning mills.

World Cotton Production and Consumption

[In bales of 478 pounds lint]

Source: United States Department of Commerce

COTTON YEAR ENDING JULY 31	World Production (Bales)	CONSUMPTION			PER CENT OF WORLD TOTAL CONSUMED BY —		
		World (Bales)	European (Bales)	United States (Bales)	Europe	United States	Other Countries
1910-11	18,856,000	19,888,000	11,040,000	4,408,000	56	22	22
1911-12	22,247,000	21,534,000	11,998,000	5,026,000	56	23	21
1912-13	21,550,000	22,055,000	12,158,000	5,575,000	55	25	20
1913-14	22,612,000	22,198,000	12,029,000	5,465,000	54	25	21
1914-15	24,861,000	20,670,000	10,606,000	5,485,000	51	26	23
1915-16	18,461,000	21,978,000	10,878,000	6,270,000	50	28	22
1916-17	18,924,000	21,108,000	9,044,000	6,653,000	43	32	25
1917-18	18,141,000	18,515,000	6,621,000	6,435,000	36	35	29
1918-19	18,765,000	16,704,000	5,962,000	5,831,000	36	35	29
1919-20	20,220,000	19,300,000	7,700,000	6,485,000	40	34	26
1920-21	19,665,000	16,905,000	6,735,000	4,905,000	40	29	31
1921-22	15,334,000	19,990,000	7,916,000	5,910,000	39	30	31
1922-23	17,926,000	21,325,000	8,129,000	6,666,000	38	31	31
1923-24	19,036,000	19,982,000	8,393,000	5,681,000	42	28	30
1924-25	23,836,000	22,642,000	9,689,000	6,193,000	43	30	27
1925-26	26,678,000	23,930,000	10,031,000	6,456,000	42	31	27
1926-27	27,812,000	25,809,000	10,884,000	7,190,000	42	30	28
1927-28	23,370,000	25,235,000	11,071,000	6,834,000	44	27	29

Source of Supply of Cotton according to Length of Staple

[Bales of 500 pounds; gross weight]

Source: British Cotton Growing Committee and United States Bureau of Markets

GROWTH	Kind	Where Grown	Length of Staple (Inches)	Approximate Pre-war Supply (Bales)
I	Sea Island	Islands, South Carolina	1½-2¼	8,000
	Sea Island	West Indies	1½-2¼	4,000
	Sea Island	Islands, Florida and Georgia	1½-1¾	70,000
II	Sea Island	West Indies	1½-1¾	2,000
	Egyptian	Egypt	1½-1¾	550,000
	Egyptian	Egypt	1-1½	700,000
III	Egyptian	Sudan	1-1½	20,000
	American	Mississippi Delta, etc.	1½-1½	200,000
	African	Nyasaland, Uganda, and East and South Africa	1½-1½	40,000
	Peruvian	Peru	1-1½	125,000
	American¹	United States	7-14	15,000,000
	Mexican	Mexico	7-14	150,000
IV	Brazilian	Brazil	3-15	300,000
	Russian	Russia	1-1½	500,000
	West African	West Africa	1-1½	15,000
	Levant	Levant	3-1½	100,000
	Indian	India	4-1½	400,000
	Chinese and Korean	China and Chosen (Korea)	1-1½	250,000
V	Indian	India	3-7	4,500,000
	Russian	Russia	3-7	750,000
	Chinese	China	3-3½	1,800,000
Approximate world's pre-war supply				25,484,000

¹ Including American-Egyptian cotton.

Length¹ of Staple of the World's Cotton by Varieties

[In inches]

Source: United States Department of Agriculture

VARIETY	Minimum	Average	Maximum	VARIETY	Minimum	Average	Maximum
United States:				India:			
Sea Island	1½	—	2½	Cambodia	5	—	1½
Meade	1½	—	1½	Karunganni	6	—	1
American-Egyptian	1½	—	1½	Broach	6	—	1
Upland long staple	1½	—	1½	Oonras	1	—	7
Upland short staple	¾	—	1½	Dhollerias	5	—	7
Mexico	—	1	—	Kumptas	7	—	—
Egypt:				Western and Northern	3	—	7
Sakels	1½	—	1½	Tinnevellys	3	—	7
Brown and uppers	1½	—	1½	Bengals	3	—	8
China:				Sind-Punjab	3	—	8
Native	—	5	7	Brazil:			
American	—	—	1	Serido or Mocó	13	—	13
Russia:				Verdão	13	—	13
Native	¾	—	¾	Inteiro	14	—	—
American	—	—	1½	Quebradinho	15	—	13
Peru:				Macaco or Garga	16	—	—
Full rough (aspero)	—	1½	—	Cleveland	16	—	—
Semi-rough (semi-aspero)	—	1½	—	Russel Big Boll	16	—	13
Egipto (suave)	1½	—	1½	Express	7	—	1
Tanguis	—	1½	1½	Webber	7	—	1
Mitafi	—	1½	—	Herbaco	16	—	14
				Durango	—	1½	—
				Sea Island	—	1½	—
				Campo Brito	—	1½	—

¹ Figures are only approximate. It must be noted that opinions frequently differ as to length of certain varieties.

Range of Staple of Various Cottons

Source: Department of Agriculture

UNITED STATES

American-Egyptian	$1\frac{3}{8}$, to $1\frac{5}{8}$ inches, bulk about $1\frac{9}{16}$ inches
Upland Long Staples (Mississippi Delta and Arkansas)	$1\frac{1}{16}$ to $1\frac{5}{16}$ inches
Western Uplands	$\frac{7}{8}$ to $1\frac{1}{16}$ inches, with some $1\frac{1}{8}$ inches
Eastern Uplands	$\frac{7}{8}$ to 1 inch, with some below $\frac{7}{8}$ and some above 1 inch

INDIA

Dharwar No. 1 (Kumpta)	$\frac{7}{8}$ to 1 inch
Gadag No. 1 (Dharwar-American)	$\frac{13}{16}$ to $\frac{15}{16}$ inch
Surat	$\frac{15}{16}$ to $1\frac{1}{16}$ inches
Punjab American	$\frac{5}{8}$ to $1\frac{1}{8}$ inches
Cambodia	$\frac{7}{8}$ to $1\frac{1}{8}$ inches
Hagari (Sircar)	$\frac{5}{8}$ to $\frac{7}{8}$ inch
Bengal	$\frac{1}{2}$ to $\frac{5}{8}$ inch

EGYPT

Uppers (high grade)	$1\frac{1}{16}$ to $1\frac{1}{8}$ inches
Uppers (low grade)	$1\frac{1}{16}$ inches
Upper (Ashmouni)	$1\frac{1}{8}$ inches
Upper (Zagora)	$1\frac{5}{32}$ inches
Sakellaridis (high grade)	$1\frac{5}{8}$ inches
Sakellaridis (low grade)	$1\frac{3}{16}$ to $1\frac{1}{4}$ inches
Cazuli	$1\frac{7}{16}$ inches
Nahda	$1\frac{7}{16}$ inches
Pilion	$1\frac{5}{16}$ inches
Sakellaridis Domains	$1\frac{5}{8}$ inches
310	$1\frac{9}{16}$ inches

PERU

Smooth Tanguis	$1\frac{1}{4}$ inches
Rough Tanguis	$1\frac{5}{32}$ inches
Egipto Tanguis	$1\frac{3}{32}$ inches
Mitafifi	$1\frac{1}{4}$ inches
Pima Peruvian	$1\frac{5}{8}$ inches
Full Rough Tanguis	$1\frac{3}{16}$ inches
Moderate (semi-rough)	$1\frac{3}{16}$ inches

CHINA

Tungchow	$\frac{13}{16}$ inch
Hakush	$\frac{1}{2}$ to $\frac{5}{8}$ inch
Sengsi (Shensi)	$\frac{5}{8}$ to $\frac{7}{8}$ inch
Lingpao	$1\frac{1}{16}$ inches
Tien Tsin	Half and half
Indo China	$\frac{7}{8}$ inch

BRAZIL

Sao Paulo	$\frac{7}{8}$ inch
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Approximate Dates of Cotton Planting and Picking by Countries

Source: United States Department of Agriculture

COUNTRY	PLANTING			PICKING		
	Beginning	Principal Months	End	Begin-ning	Principal Months	End
United States ¹	March 15	—	May 25	July 1	—	Dec. 31
Mexico:						
Laguna District	—	—	March	July	—	Dec.
Lower California	March	—	July	Sept.	—	Feb.
Egypt	Feb.	—	May	Aug.	—	Dec.
China	May	—	—	Oct.	—	—
Russia	—	March-April	—	Aug.	—	Oct.
India	—	March-Dec.	—	—	Oct.-April	—
Brazil:						
North	Dec.	—	April	Aug.	—	Dec.
South	Sept.	—	Nov.	March	—	May
Peru ²	—	Oct.-Dec.	—	—	May-Sept.	—

¹ About 95 per cent of the crop is picked from August 1 to November 30.² Planting and picking are carried on all the year. Some varieties yield several crops before they are replanted.

Usual Dates when Planting and Picking of Cotton Begins, is Most General, and Ends

Source: United States Department of Agriculture

STATES	PLANTING			PICKING		
	Beginning	General	Ending	Beginning	General	Ending
North Carolina	Apr. 19	May 2	May 16	Sept. 5	Oct. 11	Dec. 6
South Carolina	Apr. 5	Apr. 22	May 12	Aug. 25	Sept. 23	Dec. 5
Georgia	Apr. 5	Apr. 21	May 12	Aug. 27	Oct. 3	Dec. 9
Florida	Mar. 16	Mar. 28	Apr. 20	Aug. 16	Sept. 26	Nov. 27
Alabama	Apr. 8	Apr. 20	May 11	Aug. 29	Oct. 5	Dec. 7
Mississippi	Apr. 5	Apr. 21	May 11	Aug. 30	Oct. 4	Dec. 10
Louisiana	Mar. 29	Apr. 15	May 7	Aug. 26	Sept. 24	Dec. 14
Texas	Mar. 29	Apr. 14	May 9	Aug. 27	Oct. 2	Dec. 10
Arkansas	Apr. 15	Apr. 28	May 13	Sept. 6	Oct. 10	Dec. 9
Tennessee	Apr. 21	May 2	May 16	Sept. 4	Oct. 4	Nov. 30
Oklahoma	Apr. 18	May 2	May 24	Sept. 16	Oct. 18	Dec. 28
Missouri	Apr. 25	May 4	May 14	Sept. 22	Oct. 24	Dec. 10
Virginia	May 1	May 10	May 20	Sept. 15	Oct. 15	Jan. 1
California	Feb. 15	Apr. 15	June 1	Aug. 15	Dec.	Feb. 15

Cost of Production of Raw Cotton

Source: United States Department of Agriculture

YIELD GROUPS (POUNDS OF LINT PER ACRE)	NET COST OF LINT	
	Per Acre	Per Pound
60 pounds and under	\$21.65	\$0.50
61 to 100 pounds	22.38	.26
101 to 140 pounds	25.51	.20
141 to 180 pounds	25.02	.15
181 to 220 pounds	28.52	.14
221 to 260 pounds	30.66	.13
261 to 300 pounds	35.71	.12
301 to 340 pounds	32.99	.10
341 to 380 pounds	37.64	.10
381 to 420 pounds	42.19	.11
421 to 460 pounds	41.83	.09
461 to 500 pounds	45.71	.09
501 pounds and over	47.36	.08

Weight, Size, Density and Tare of Foreign Bales

Source: United States Department of Commerce

	Egyptian	East Indian (Sceinde)	African (Other than Egyptian)	BRAZIL		Mexican
				Pernam- buco	Rio	
Gross weight, pounds	741	334	400	354	142	508
Size of bales:						
Height (inches)	52	32	40½	51	56	49
Width (inches)	21½	18	27	18	16	29
Depth (inches)	32	27	27	21	30	46
Density per cubic foot (pounds)	35.8	37.1	23.41	31.749	9.13	13.43
Contents (cubic feet)	20.7	9.0	17.08	11.15	15.55	37.82
Tare allowance (pounds)	22	8-9	10	11¾	5	8

Weight, Size, Density and Tare of United States Bales

Source: United States Department of Commerce

	Flat	Standard	High Density	Round
Gross weight, pounds	500	500	500	250
Size of bales:				
Height (inches)	57	58	59	35
Width (inches)	27	18	19	20
Depth (inches)	46	28	24	20
Density per cubic foot (pounds)	12.21	29.58	32.12	35
Contents (cubic feet)	40.96	16.91	15.56	6.35
Tare allowance (pounds)	21-28	21-28	21-28	2½

Estimated Cotton Production of Minor Producing Areas

[In bales of 478 pounds net]

Source: Bureau of Foreign and Domestic Commerce

	1924-25	1925-26	1926-27	1927-28 ¹
Guatemala	2,100	1,000	1	500
Salvador	10,000	2,500	—	—
Colombia	8,000	8,000	1,000	10,000
Venezuela	15,000	12,000	(12,000)	12,000
Ecuador	11,500	6,000	5,400	4,000
Paraguay	12,200	10,000	11,000	11,000
Argentina	69,000	135,000	58,000	102,000
Haiti	16,000	20,000	22,000	22,000
Other West Indies	4,000	4,000	5,000	4,500
Greece	11,000	20,000	30,000	35,000
Malta	480	480	500	(500)
Cyprus	2,660	2,600	3,600	6,000
Jugoslavia	418	600	200	600
Bulgaria	2,960	1,700	3,000	4,000
Italy	4,520	4,500	4,500	4,500
Korea	121,000	125,000	145,000	135,000
French Indo-China	10,000	15,000	(15,000)	(15,000)
Siam	2,900	4,000	4,000	3,000
Afghanistan	5,000	5,000	5,000	5,000
Persia	60,000	90,000	90,000	86,000
Turkey	110,000	130,000	97,000	105,000
Dutch East Indies	8,000	6,000	2,000	3,000
New Hebrides	2,000	2,000	2,000	2,000
Australia	8,790	6,300	4,000	4,000
Fiji, etc.	80	120	380	522
Uganda	140,000	140,000	101,000	120,000
Tanganyika	15,700	17,300	21,000	14,000
Nigeria	24,000	30,000	40,000	22,000
Union of South Africa	7,300	26,200	8,571	11,233
Rhodesia	1,650	10,000	1,500	800
Sudan	45,000	106,000	130,000	110,000
French West Africa	24,000	24,000	27,000	24,000
Belgian Congo	16,000	13,000	10,000	10,000
Togoland	5,000	5,000	(5,000)	5,000
Nyasaland	2,400	9,600	4,000	2,000
Mozambique	5,000	1,000	2,500	(2,500)
Algeria	2,238	5,800	9,000	5,000
Eritrea	2,760	2,000	2,300	2,500
Italian Somaliland	2,301	2,500	3,000	2,500
Gold Coast	800	(500)	(500)	(500)
Angola	2,000	2,000	(2,000)	(2,000)
Kenya	1,600	2,000	2,000	1,500
Total	795,357	1,006,700	889,952	910,655

¹ Figures in parentheses are carried forward from last year.

Cotton Acreage and Yield per Acre of Egypt, India and the United States

United States Bureau of the Census and Department of Agriculture

COTTON YEAR ¹	EGYPT		INDIA		UNITED STATES	
	Acres	Pounds	Acres	Pounds	Acres	Pounds
1903-04	1,383,000	466	18,025,000	79	27,052,000	174
1904-05	1,491,000	420	19,918,000	77	31,215,000	206
1905-06	1,626,000	363	20,401,000	83	27,110,000	187
1906-07	1,564,000	440	22,488,000	87	31,374,000	202
1907-08	1,664,000	431	21,630,000	58	29,660,000	179
1908-09	1,703,000	393	19,999,000	74	32,444,000	195
1909-10	1,619,000	309	20,545,000	92	32,044,000	154
1910-11	1,664,000	453	22,596,000	68	32,403,000	171
1911-12	1,776,000	412	21,615,000	61	36,045,000	208
1912-13	1,787,000	417	22,028,000	84	34,283,000	191
1913-14	1,789,000	425	25,020,000	81	37,089,000	182
1914-15	1,823,000	353	24,595,000	85	36,832,000	209
1915-16	1,231,000	387	17,746,000	84	31,412,000	170
1916-17	1,718,000	295	21,745,000	83	34,985,000	157
1917-18	1,741,000	359	25,188,000	64	33,841,000	160
1918-19	1,366,000	338	21,038,000	76	36,008,000	160
1919-20	1,633,000	399	23,353,000	99	33,566,000	161
1920-21	1,897,000	336	21,341,000	68	35,878,000	178
1921-22	1,341,000	329	18,451,000	97	30,509,000	125
1922-23	1,868,000	360	21,077,000	98	33,036,000	142
1923-24	1,856,000	354	23,088,000	88	41,360,000	130
1924-25	1,856,000	329	24,833,000	98	40,115,000	157
1925-26	1,998,000	390	27,960,000	86	46,053,000	167
1926-27	1,853,000	386	25,006,000	79	47,087,000	182
1927-28	1,574,000	394	23,910,000	95	40,138,000	155
1928-29	1,805,000	395	25,874,000	94	45,326,000	152

¹ Cotton year of United States and Egypt are same. Indian cotton year begins September 1

Acreage planted to Egyptian Cotton, by Varieties

[Expressed in feddans¹]

[Cotton years]

Source: Egyptian Ministry of Agriculture

	1923-24	1924-25	1925-26	1926-27	1927-28	1928-29
Sakellaridis	1,162,036	872,624	1,128,946	981,783	795,740	799,523
Ashmouni (Uppers)	287,171	2796,362	270,842	667,474	599,149	768,411
Mitaffi	5,599	—	—	—	—	—
Nubari	9,862	—	—	—	3_	3_
Affi Assil	7,246	22,271	8,384	4,234	4,261	—
Abassi	1,772	3_	3_	3_	3_	3_
Joanovich	4,082	3_	3_	3_	3_	3_
Pilion	3_	49,960	72,799	102,394	74,451	97,218
Various	110,332	46,626	443,411	29,817	42,598	73,320
Total	1,588,100	1,787,843	1,924,382	1,785,702	1,516,199	1,738,472

¹ 1 feddan = 1.038 acres.

² Including Zagoura, which has previously been included in "Various."

³ Included in "Various."

Acreage of Cotton planted, Acreage abandoned, and Acreage harvested in the United States

Source: United States Department of Agriculture

COTTON YEAR	Acreage planted ¹	Acreage abandoned	Acreage harvested
1912-13	34,766,000	483,000	34,283,000
1913-14	37,458,000	369,000	37,089,000
1914-15	37,406,000	574,000	36,832,000
1915-16	32,107,000	695,000	31,412,000
1916-17	36,052,000	1,067,000	34,985,000
1917-18	34,925,000	1,084,000	33,841,000
1918-19	37,207,000	1,199,000	36,008,000
1919-20	35,133,000	1,567,000	33,566,000
1920-21	37,043,000	1,165,000	35,878,000
1921-22	31,678,000	1,169,000	30,509,000
1922-23	34,016,000	980,000	33,036,000
1923-24	38,701,000	867,000	37,123,000
1924-25	41,390,000	1,275,000	41,360,000
1925-26	48,090,000	2,037,000	46,053,000
1926-27	48,730,000	1,636,000	47,087,000
1927-28	41,905,000 ³	1,760,010	40,138,000
1928-29 ²	46,943,000 ³	1,596,062	45,326,000

¹ Acreage planted is computed as of June 25 each year.

² 1928-29 figures are subject to revision.

³ July 1, 1927 and 1928.

Acreage of Cotton harvested in the United States

Source: United States Department of Agriculture

STATE	THOUSANDS OF ACRES FOR COTTON YEARS							
	1921-22	1922-23	1923-24	1924-25	1925-26	1926-27	1927-28	1928-29 ¹
Total	30,509	33,036	37,123	41,360	46,053	47,087	40,138	45,326
Alabama	2,235	2,771	3,079	3,055	3,504	3,651	3,166	3,595
Arizona	90	101	127	180	162	167	139	200
Arkansas	2,382	2,799	3,026	3,094	3,738	3,790	3,048	3,610
California ²	140	202	233	317	319	292	238	378
Florida	65	118	147	80	101	105	64	95
Georgia	4,172	3,418	3,421	3,046	3,589	3,965	3,413	3,719
Louisiana	1,168	1,140	1,405	1,616	1,874	1,979	1,542	1,985
Mississippi	2,628	3,014	3,170	2,981	3,466	3,752	3,340	3,994
Missouri	103	198	355	493	520	434	291	349
New Mexico	-	-	60	101	107	120	95	108
North Carolina	1,403	1,625	1,679	2,005	2,017	1,985	1,728	1,890
Oklahoma	2,206	2,915	3,197	3,861	5,214	4,676	3,601	4,249
South Carolina	2,571	1,912	1,965	2,404	2,654	2,648	2,356	2,355
Tennessee	634	985	1,172	996	1,173	1,143	965	1,086
Texas	10,745	11,874	14,150	17,175	17,608	18,374	16,176	17,766
Virginia	34	55	74	102	100	93	64	79
All other	18	44	73	41	57	43	22	28

¹ Preliminary estimate.

² Lower California (160,000 acres in 1928; 110,000 acres in 1927; 130,000 in 1926; 150,000 in 1925; 140,000 in 1924; 148,000 in 1923; 135,000 in 1922; 85,000 in 1921) included in California figures, but excluded from United States totals.

Acreage and Production of Cotton in Egypt

Source: Egyptian Ministry of Finance

COTTON YEAR	ACREAGE		PRODUCTION		Yield per Feddan (Kantars)	Yield per Acre (Pounds)
	Feddans ¹	Acres	Kantars ²	Bales (478 Pounds)		
1912-13 . . .	1,721,817	1,787,000	7,499,000	1,560,669	4.35	417
1913-14 . . .	1,723,094	1,789,000	7,664,000	1,592,050	4.44	425
1914-15 . . .	1,755,270	1,823,000	6,451,000	1,345,188	3.67	353
1915-16 . . .	1,186,004	1,231,000	4,775,000	995,815	4.02	387
1916-17 . . .	1,655,512	1,718,000	5,060,000	1,058,577	3.06	295
1917-18 . . .	1,677,310	1,741,000	6,293,000	1,306,485	3.75	359
1918-19 . . .	1,315,572	1,366,000	4,821,000	998,954	3.66	338
1919-20 . . .	1,573,662	1,633,000	5,572,000	1,363,110	3.54	399
1920-21 . . .	1,827,870	1,897,329	6,035,504	1,250,635	3.30	315
1921-22 . . .	1,289,826	1,338,839	4,352,958	901,989	3.37	322
1922-23 . . .	1,800,843	1,869,275	6,713,312	1,391,086	3.73	356
1923-24 . . .	1,715,150	1,780,326	6,531,457	1,353,403	3.81	363
1924-25 . . .	1,787,843	1,855,781	7,273,974	1,507,262	4.07	388
1925-26 . . .	1,924,382	1,997,509	7,964,645	1,650,378	4.14	395
1926-27 . . .	1,785,702	1,853,559	7,652,190	1,585,633	4.29	409
1927-28 . . .	1,516,199	1,573,815	6,087,188	1,261,344	4.01	383
1928-29 ³ . . .	1,738,921	1,805,000	7,195,408	1,491,000	3.98	395

¹ 1 feddan = 1.035 acres.

² 1 kantar = 99.049 pounds.

³ Preliminary estimates.

Acreage and Crops of American-Egyptian Cotton

[Crops in 500-pound bales gross]

Source: United States Department of Agriculture

COTTON YEAR	Acreage planted	Crop
1913-14	3,500	2,135
1914-15	12,000	6,187
1915-16	2,330	1,095
1916-17	5,477	3,331
1917-18	33,000	15,966
1918-19	80,000	36,187
1919-20	90,000	40,437
1920-21	240,000	91,965
1921-22	80,000	37,094
1922-23	77,000	32,824
1923-24	40,000	22,426
1924-25	8,000	4,319
1925-26	40,000	20,053
1926-27	27,000	16,232
1927-28	46,000	24,223
1928-29	44,000	28,310

Dates of Earliest Killing Frosts in Autumn in the Cotton Belt of the United States during the Past Six Years

Source: United States Weather Bureau

	1923	1924	1925	1926	1927	1928
North Carolina:						
Charlotte .	Nov. 9	Nov. 19	Oct. 29	Nov. 11	Nov. 7	Nov. 21
Rockingham .	Nov. 2 ¹	Oct. 24	Oct. 11 ¹	Oct. 26	Nov. 7	Nov. 12
Raleigh .	Nov. 2	Nov. 18	Oct. 29	Nov. 4	Nov. 7	Nov. 21
Goldsboro .	Nov. 9 ¹	Nov. 18 ¹	Oct. 11 ¹	Oct. 18	Nov. 6 ¹	Nov. 12 ¹
South Carolina:						
Charleston .	Nov. 10	Nov. 30	Nov. 24	Dec. 19	Dec. 20	Dec. 9
Columbia .	Nov. 9	Nov. 19	Nov. 24	Nov. 11	Nov. 21	Nov. 21
Georgia:						
Atlanta .	Nov. 9	Nov. 25	Oct. 29	Nov. 3	Nov. 19	Nov. 21
Augusta .	Nov. 10	Nov. 19	Nov. 24	Nov. 12	Nov. 21	Nov. 24
Savannah .	Nov. 10	Nov. 30	Nov. 24	Nov. 12	Dec. 9 ¹	Nov. 27
Columbus .	Nov. 10	Nov. 26	Nov. 17	Nov. 11	Nov. 19	Nov. 21 ¹
Rome .	Nov. 8	Nov. 19 ¹	Oct. 29	Nov. 3	Nov. 19	Nov. 14 ¹
Alabama:						
Eufaula .	Nov. 10	Nov. 26	Nov. 17	Nov. 11 ¹	Nov. 19	Nov. 21 ¹
Mobile .	Jan. 6 ²	Nov. 26	Dec. 23	Dec. 16	Dec. 9	Nov. 26
Montgomery .	Dec. 7	Nov. 26	Nov. 23	Nov. 11	Nov. 19	Nov. 26
Mississippi:						
Vicksburg .	Nov. 30	Nov. 25	Nov. 23	Nov. 10	Nov. 18	Nov. 21
Greenville .	Nov. 7	Oct. 24	Oct. 20 ¹	Oct. 25 ¹	Dec. 3 ¹	Nov. 21 ¹
Louisiana:						
New Orleans .	Jan. 6 ²	Dec. 26	Dec. 28	None	Dec. 9	Dec. 9
Shreveport .	Dec. 6	Nov. 25	Nov. 23	Nov. 10	Nov. 17	Nov. 20
Texas:						
Galveston .	Jan. 7 ²	Dec. 19	Dec. 23	None	Dec. 8	None
Palestine .	Dec. 14	Dec. 10	Nov. 23	Nov. 18	Dec. 8	Nov. 3
San Antonio .	Jan. 1 ²	Dec. 19	Nov. 16	None	Dec. 8	Dec. 20
Fort Worth .	Dec. 14	Dec. 9	Oct. 28	Nov. 10	Dec. 1	Dec. 5
Arkansas:						
Little Rock .	Nov. 30	Nov. 25	Oct. 30	Nov. 3	Nov. 17	Nov. 20
Fort Smith .	Nov. 29	Nov. 24	Oct. 28	Nov. 5	Nov. 16	Nov. 20
Tennessee:						
Memphis .	Oct. 31	Nov. 29	Oct. 29	Oct. 25	Nov. 18	Nov. 21
Nashville .	Nov. 1	Oct. 24	Oct. 20	Nov. 3	Nov. 6	Nov. 11
Chattanooga .	Nov. 9	Nov. 20	Oct. 29	Nov. 6	Nov. 19	Nov. 21
Oklahoma:						
Ardmore .	Nov. 30 ¹	Nov. 24	Oct. 25	Nov. 9 ¹	Nov. 17	Nov. 3 ¹
Oklahoma .	Oct. 31	Nov. 24	Oct. 25	Nov. 9	Nov. 12	Nov. 3
Mangum .	Nov. 6 ¹	Nov. 7 ¹	No record	Nov. 2	Nov. 12	Nov. 2 ¹

¹ First date with temperature of 32° or below.² 1924.

Dates of Earliest Killing Frosts in Autumn, and Latest Killing Frosts in Spring, from Beginning of Record kept by United States Weather Bureau to December 31, 1928

	Years recorded	Earliest Date in Autumn	Average Date in Autumn	Latest Date in Spring	Average Date in Spring
Virginia:					
Newport News	28	Oct. 3	Nov. 6	April 26	March 28
Norfolk	56	Oct. 11	Nov. 17	April 26	March 25
Richmond	31	Oct. 12	Oct. 31	April 26	April 7
North Carolina:					
Greensboro	25	Oct. 11	Oct. 30	April 26	April 9
Raleigh	42	Oct. 8	Nov. 5	April 26	March 29
Wilmington	58	Oct. 16	Nov. 13	May 1	March 23
Charlotte	50	Oct. 8	Nov. 5	April 26	March 28
Monroe	32	Oct. 2	Oct. 19	May 10	April 14
South Carolina:					
Charleston	58	Nov. 8	Dec. 10	April 2	Feb. 20
Columbia	49	Oct. 30	Nov. 18	April 17	March 18
Greenwood	31	Oct. 11	Nov. 8	April 17	March 25
Spartanburg	38	Sept. 24	Nov. 1	April 17	March 30
Greenville	33	Oct. 10	Nov. 2	April 24	April 3
Georgia:					
Macon	29	Oct. 11	Nov. 7	April 18	March 23
Athens	35	Oct. 11	Nov. 1	April 21	April 2
Augusta	55	Oct. 21	Nov. 10	April 17	March 22
Savannah	56	Oct. 25	Nov. 24	April 13	Feb. 26
Rome	37	Oct. 11	Oct. 27	April 24	April 9
Columbus	32	Oct. 11	Nov. 6	April 26	March 22
Gainesville	32	Oct. 11	Oct. 27	April 24	April 9
Newnan	32	Oct. 11	Nov. 5	April 26	April 5
Thomasville	34	Oct. 21	Nov. 15	April 26	March 14
Florida:					
Gainesville	31	Nov. 10	Dec. 3	April 2	Feb. 26
Jacksonville	73	Nov. 12	Dec. 6	April 10	Feb. 16
Lake City	36	Oct. 25	Nov. 28	April 26	March 10
Pensacola	49	Oct. 27	Dec. 7	April 6	Feb. 17
Tallahassee	38	Nov. 4	Dec. 1	April 10	March 4
Tampa	39	Nov. 21	Jan. 3	April 7	Jan. 26
Alabama:					
Anniston	24	Oct. 11	Nov. 1	April 25	March 24
Opelika	33	Oct. 21	Nov. 11	April 17	March 20
Montgomery	57	Oct. 21	Nov. 11	April 5	March 10
Selma	31	Oct. 13	Nov. 10	April 26	March 16
Eufaula	37	Oct. 21	Nov. 12	April 26	March 16
Mobile	58	Oct. 31	Dec. 5	April 6	Feb. 17
Decatur	33	Oct. 11	Nov. 2	April 26	March 28
Birmingham	34	Oct. 21	Nov. 9	April 20	March 16
Tuscaloosa	40	Oct. 21	Nov. 6	April 25	March 27
Thomasville	31	Oct. 20	Nov. 10	April 26	March 17
Mississippi:					
Yazoo City	34	Oct. 13	Nov. 2	April 25	March 20
Vicksburg	58	Oct. 20	Nov. 12	April 6	March 4
Meridian	39	Oct. 8	Nov. 5	April 25	March 18
Natchez	34	Oct. 20	Nov. 14	April 25	March 14

Dates of Earliest Killing Frosts in Autumn and Latest Killing Frosts in Spring, and Average Dates, etc. — (Concluded)

	Years recorded	Earliest Date in Autumn	Average Date in Autumn	Latest Date in Spring	Average Date in Spring
Mississippi (Continued):					
Greenville	38	Oct. 10	Nov. 6	April 26	March 19
Greenwood	29	Oct. 13	Oct. 31	April 26	March 25
Columbus	34	Oct. 11	Oct. 31	April 26	March 27
Louisiana:					
Baton Rouge	42	Oct. 14	Nov. 18	April 5	Feb. 20
New Orleans	56	Nov. 11	Dec. 16	March 27	Jan. 25
Monroe	35	Oct. 10	Nov. 10	April 9	March 11
Natchez (see Mississippi)					
Shreveport	56	Oct. 20	Nov. 10	April 9	March 6
Vicksburg (see Mississippi)					
Texas:					
Houston	38	Oct. 25	Dec. 1	March 26	Feb. 19
Galveston	57	Nov. 16	Dec. 26	March 1	Jan. 19
Corpus Christi	42	Nov. 29	Dec. 28	March 19	Jan. 21
Luling	37	Oct. 27	Nov. 21	April 9	March 6
Cuero	36	Oct. 27	Nov. 23	April 5	Feb. 27
San Antonio	43	Oct. 30	Nov. 28	April 5	Feb. 24
El Paso	41	Oct. 27	Nov. 15	April 26	March 14
Abilene	43	Oct. 19	Nov. 10	April 23	March 21
Amarillo	37	Sept. 22	Oct. 29	May 23	April 17
Fort Worth	34	Oct. 22	Nov. 12	April 9	March 11
Lampasas	36	Oct. 9	Nov. 9	May 2	March 22
Taylor	34	Oct. 30	Nov. 22	April 5	March 13
Temple	37	Oct. 29	Nov. 18	April 9	March 10
Austin	58	Oct. 28	Nov. 22	April 9	March 5
Waco	38	Oct. 22	Nov. 12	April 9	March 12
Gainesville	38	Oct. 9	Nov. 6	May 1	March 28
Dallas	39	Oct. 8	Nov. 13	May 1	March 19
Waxahachie	30	Oct. 9	Nov. 7	April 30	March 27
Corsicana	38	Oct. 22	Nov. 14	May 1	March 15
Palestine	46	Oct. 20	Nov. 13	April 5	March 13
Nacogdoches	28	Oct. 21	Nov. 12	April 25	March 18
Greenville	27	Oct. 19	Nov. 12	April 26	March 19
Paris	38	Oct. 9	Nov. 11	April 17	March 19
Arkansas:					
Fort Smith	47	Oct. 9	Nov. 5	April 17	March 21
Little Rock	49	Oct. 22	Nov. 13	April 26	March 18
Pine Bluff	35	Oct. 11	Nov. 4	April 25	March 24
Texarkana	36	Oct. 9	Nov. 9	April 17	March 20
Tennessee:					
Memphis	57	Oct. 2	Nov. 3	April 25	March 22
Nashville	58	Oct. 8	Oct. 27	April 24	April 2
Chattanooga	50	Sept. 30	Oct. 26	May 14	April 2
Decatur	32	Oct. 2	Oct. 23	May 14	April 18
Knoxville	58	Oct. 1	Oct. 28	April 26	April 2
Oklahoma:					
Muskogee	27	Oct. 10	Nov. 3	April 21	March 22
Oklahoma	38	Oct. 7	Nov. 2	April 30	March 31
Missouri:					
St. Louis	56	Sept. 30	Oct. 27	May 22	April 4

Forecasts of American Cotton Crops by United States Department of Agriculture compared with Actual Yield and Production Forecasts of Yield per Acre

Year	Forecasts of Yield per Acre (Pounds)					Actual Yield (Pounds)	Pounds Variation of Forecast from Yield				
	May 25	June 25	July 25	Aug. 25	Sept. 25		May 25	June 25	July 25	Aug. 25	Sept. 25
	Dec. Est.	Dec. Est.	Dec. Est.	Dec. Est.	Dec. Est.		Dec. Est.	Dec. Est.	Dec. Est.	Dec. Est.	Dec. Est.
1916	181.5	191.6	173.4	158.5	156.3	156.6	+24	+35	+16	+1	+8
1917	162.5	162.5	166.9	174.6	168.3	159.7	+2	+40	+17	+14	+5
1918	196.8	196.8	177.3	145.2	154.1	155.9	+9	-5	-3	-1	-3
1919	171.3	156.4	156.8	159.8	158.0	161.5	-	-22	-8	-13	-8
1920	-	155.9	170.4	174.0	165.0	178.4	-	+28	+24	+3	+0
1921	-	152.2	148.0	127.0	118.0	126.9	-	+10	+16	+4	+2
1922	-	151.0	137.0	145.0	139.0	141.6	-	+12	+13	+7	+0
1923	-	142.6	143.9	134.8	137.7	128.0	-	-13	-16	-2	-8
1924	-	143.8	141.3	153.5	149.2	156.8	-	-20	-27	-23	+5
1925	-	147.7	140.0	144.1	143.5	167.2	-	-23	-26	-27	+6
1926	-	158.5	155.8	154.6	160.0	181.9	-	-	-	+2	-2
1927	-	-	-	150.8	149.3	152.3	-	-	-	-	-
1928	-	-	-	152.2	153.9	151.8	-	-	-	-	-

¹ 1925 and 1926 reports were dated June 25, July 16, August 16, September 16 and December 8. ² 1927 and 1928 reports were dated August 1, September 1 and December 1.

Forecasts of Total Crop [500-pound gross bales, exclusive of linters]

Year	Forecasts of Crops					Actual Production	Amount of Variation of Forecasts from Actual Production				
	June 25	July 25	Aug. 25	Sept. 25	Dec. Est.		June 25	July 25	Aug. 25	Sept. 25	Dec. Est.
	Dec. Est.	Dec. Est.	Dec. Est.	Dec. Est.	Dec. Est.		Dec. Est.	Dec. Est.	Dec. Est.	Dec. Est.	Dec. Est.
1916	14,266,000	12,916,000	11,800,000	11,637,000	11,511,000	11,449,930	+2,816,070	+1,466,070	+350,070	+187,070	+61,070
1917	11,633,000	11,949,000	12,499,000	12,047,000	10,949,000	11,302,375	+330,625	+1,416,625	+1,196,625	+744,625	+353,375
1918	15,325,000	13,619,000	11,137,000	11,818,000	11,700,000	12,040,532	+3,284,488	+1,578,488	+903,532	+922,532	+340,532
1919	10,986,000	11,016,000	11,250,000	10,696,000	11,630,000	11,420,603	-434,763	-1,404,763	-190,763	-724,763	-390,763
1920	11,450,000	12,519,000	12,787,000	12,123,000	12,387,000	13,439,603	-1,989,603	-920,603	-636,603	-1,316,603	-452,603
1921	8,433,000	8,203,000	7,037,000	6,357,000	8,340,000	7,953,641	+479,359	+249,359	+916,641	+1,416,641	+386,359
1922	11,065,000	11,449,000	10,375,000	10,135,000	9,964,000	9,762,069	+1,302,931	+1,686,931	+812,931	+372,931	+191,931
1923	11,412,000	11,316,000	10,788,000	11,015,000	10,851,000	10,139,671	+1,273,329	+1,376,329	+648,329	+875,329	+58,071
1924	12,144,000	13,954,000	12,596,000	12,596,000	13,153,000	13,627,936	-1,433,936	-1,693,936	-671,936	-1,031,936	-474,936
1925	14,339,000	13,588,000	13,490,000	13,431,000	15,693,000	16,103,679	-1,704,679	-2,515,679	-2,113,679	-2,172,679	-500,679
1926	-	15,368,000	15,248,000	15,810,000	18,618,000	17,977,374	-2,342,374	-2,909,374	-2,729,374	-2,167,374	+640,626
1927	-	-	13,432,000	12,692,000	12,789,000	12,956,043	-	-	+535,957	+264,043	+167,043
1928	-	-	14,291,000	14,439,000	14,373,000	14,450,009	-	-	+159,007	+11,007	+77,007

¹ 1925 and 1926 reports were dated June 25, July 16, August 16, September 16 and December 8.
² 1927 and 1928 reports were dated August 1, September 1 and December 1.
³ March, 1929, Ginning Report.

Computation of Cotton Crop Condition

The following statement from the Bureau of Agricultural Economics outlines the method used to obtain the government cotton crop condition estimate:

The condition figures published by this Bureau are based upon a normal condition. A normal condition is such a condition as would be expected at the date to which the report relates if conditions are favorable to the crop; that is to say, assuming that good seed had been planted under favorable conditions and that the crop had not suffered material injury from drought, storms, insect pests, plant diseases, or other unfavorable influences. Normal is not an ideal condition, but represents something rather close to the average of good years. The bearing of condition is upon final yield per acre rather than upon total production, because condition does not involve the question of acreage.

The yield per acre to be expected from a condition of 100 per cent or normal for any month is determined each year by a study of the relation of condition in that month to final yield in previous years. The reported per cent of a normal June 25 condition would, of course, indicate a corresponding per cent of the established normal yield per acre for June 25. This promised yield per acre, being multiplied by the number of acres, gives an indication of total production. All such forecasts are based upon the assumption that conditions affecting the crop developing after the date of report will be average, and that the final yield will prove greater or less than the forecast according as such future influences prove more or less favorable than in an average year.

A condition in June of 71 would not necessarily indicate the same production as the same figure for the following month because conditions average higher in June than in July for most crops, and distinctly so for cotton. The comparison each month is with normal conditions for that month. While the conditions of 71 per cent normal in June might be 80 per cent of the June *average* condition, the same per cent of July normal might be 90 per cent of July *average* condition and indicate a correspondingly higher yield.

Condition of American Cotton Crops on July 25

Source: United States Department of Agriculture

STATE	1921	1922	1923	1924	1925 ¹	1926 ¹	1927 ²	1928 ²
Virginia	82	80	88	54	76	71	75	82
North Carolina	75	78	82	56	77	68	78	73
South Carolina	62	60	64	59	71	55	66	64
Georgia	59	54	48	76	74	61	65	62
Florida	60	65	52	76	82	80	71	62
Alabama	58	70	66	70	78	71	70	59
Mississippi	68	74	65	70	83	70	68	66
Louisiana	59	70	68	66	76	71	64	66
Texas	62	72	71	69	56	73	69	70
Arkansas	76	81	68	70	85	72	68	67
Tennessee	75	85	69	68	79	71	69	68
Missouri	80	90	70	65	80	79	61	55
Oklahoma	68	75	63	72	76	78	75	71
California	83	95	88	90	92	99	90	90
Arizona	89	86	91	94	94	89	85	87
New Mexico	88	85	85	83	82	84	83	85
All other	—	—	—	70	79	73	67	62
United States	64.7	70.8	67.2	68.5	70.4	70.7	69.5	67.9

¹ Condition on July 16. Change due to the inauguration of semi-monthly reports.

² Condition on August 1.

Condition of American Cotton Crops on August 25

Source: United States Department of Agriculture

STATE	1921	1922	1923	1924	1925 ¹	1926 ¹	1927 ²	1928 ²
Virginia	63	68	93	62	79	65	70	78
North Carolina	62	65	71	59	75	73	64	69
South Carolina	50	46	57	59	53	53	48	58
Georgia	41	44	42	70	61	56	55	58
Florida	59	60	30	72	78	70	58	58
Alabama	53	60	52	70	70	65	58	59
Mississippi	57	60	48	65	77	67	57	60
Louisiana	45	60	53	50	65	64	55	53
Texas	42	59	55	61	46	61	56	61
Arkansas	63	63	57	71	79	67	55	61
Tennessee	74	65	64	72	82	70	60	65
Missouri	78	70	67	70	81	74	52	64
Oklahoma	48	53	46	75	74	66	51	53
California	83	91	88	90	93	94	90	87
Arizona	85	87	90	85	92	83	90	87
New Mexico	—	85	88	92	77	86	90	89
All other	—	—	—	75	92	79	77	62
United States	49.3	57.0	54.1	64.9	62.0	63.5	56.1	60.3

¹ Condition on August 16.

² Condition on September 1.

Condition of American Cotton Crops on September 25

Source: United States Department of Agriculture

STATE	1921	1922	1923	1924	1925 ¹	1926 ¹	1927 ²	1928 ²
Virginia	53	63	83	60	64	66	64	70
North Carolina	54	59	64	52	62	69	57	59
South Carolina	40	38	53	47	43	55	44	49
Georgia	33	37	31	59	53	56	54	50
Florida	50	55	20	71	71	65	57	50
Alabama	46	55	42	59	64	62	60	50
Mississippi	48	54	37	57	73	62	58	54
Louisiana	41	53	45	48	70	58	54	50
Texas	38	52	56	52	42	57	55	58
Arkansas	53	57	50	59	64	59	54	53
Tennessee	62	56	47	60	60	54	56	56
Missouri	70	70	64	63	64	61	50	57
Oklahoma	38	42	49	64	55	62	44	47
California	73	80	84	77	90	92	91	85
Arizona	81	80	90	72	92	81	87	80
New Mexico	-	-	84	85	85	90	85	84
All other	-	-	-	77	75	69	69	69
United States	42.2	50.0	49.5	55.4	53.8	59.5	54.2	54.4

¹ Condition on September 16.² Condition on October 1.**Condition of American Cotton Crop on Reporting Dates in 1928**

Source: United States Department of Agriculture

STATE	Aug. 1, 1928	Sept. 1, 1928	Oct. 1, 1928
Virginia	82	78	70
North Carolina	73	69	59
South Carolina	64	58	49
Georgia	62	58	50
Florida	62	58	50
Alabama	59	59	50
Mississippi	66	60	54
Louisiana	66	53	50
Texas	70	61	58
Arkansas	67	61	53
Tennessee	68	65	56
Missouri	55	64	57
Oklahoma	71	53	47
California	90	87	85
Arizona	87	87	80
New Mexico	85	89	84
All other	62	62	69
United States	67.9	60.3	54.4

United States Cotton Production, per Acre, by States

[In pounds for cotton years]

Source: United States Department of Agriculture

STATE	1920-21	1921-22	1922-23	1923-24	1924-25	1925-26	1926-27	1927-28	1928-29 ¹
United States	178	124.5	141.3	130.6	157.4	167.7	182.6	154.5	151.8
Alabama .	111	124	142	91	154	185	196	180	145
Arizona .	224	242	222	292	285	350	349	315	320
Arkansas .	195	161	173	98	169	205	195	157	161
California .	266	258	188	285	284	340	387	340	340
Florida .	86	80	102	40	130	180	145	126	100
Georgia .	138	90	100	82	157	155	180	154	131
Louisiana .	126	114	144	125	145	232	200	170	165
Mississippi .	145	148	157	91	176	275	241	194	176
Missouri .	275	325	360	171	185	275	240	188	200
New Mexico .	—	—	—	230	266	298	299	352	310
North Carolina	275	264	250	290	196	261	292	238	212
Oklahoma .	230	104	103	98	187	155	181	138	133
South Carolina	260	140	123	187	160	160	182	148	147
Tennessee .	185	228	190	92	170	210	188	178	185
Texas .	174	98	130	147	138	143	147	129	139
Virginia .	230	230	230	325	180	250	264	230	265
All other .	—	—	—	226	164	214	189	160	154

¹ Data for 1928-29 are preliminary estimates.

Average Grades of Recent Cotton Crops

Henry G. Hester, Secretary of the New Orleans Cotton Exchange, computes the average grades of recent American cotton crops to have been as follows:

1916-17, middling to strict middling.
 1917-18, middling.
 1918-19, barely middling.
 1919-20, strict low middling.
 1920-21, barely middling.
 1921-22, middling.
 1922-23, middling.
 1923-24, strict low middling to middling.
 1924-25, middling.
 1925-26, strict low middling.
 1926-27, strict low middling to middling.
 1927-28, middling to strict middling.
 1928-29¹ strict middling.

¹ According to cotton grade and staple report.

United States Production of Cotton and Linters

Source: United States Bureau of the Census

COTTON YEAR ENDING JULY 31	COTTON, EXCLUSIVE OF LINTERS		LINTERS		COTTON, INCLUDING LINTERS	
	Running Bales, counting Round as Half Bales	Equivalent 500-Pound Bales Gross Weight	Running Bales	Equivalent 500-Pound Bales Gross Weight	Running Bales, counting Round as Half Bales	Equivalent 500-Pound Bales Gross Weight
1904	9,819,969	9,851,129	195,752	194,486	10,015,721	10,045,615
1905	13,451,337	13,438,012	245,973	241,942	13,697,310	13,679,954
1906	10,495,105	10,575,017	230,497	229,539	10,725,602	10,804,556
1907	12,983,201	13,273,809	322,064	321,689	13,305,265	13,595,498
1908	11,057,822	11,107,179	268,060	268,282	11,325,882	11,375,461
1909	13,086,005	13,241,799	346,126	345,507	13,432,131	13,587,306
1910	10,072,731	10,004,949	313,478	310,433	10,386,209	10,315,382
1911	11,568,334	11,608,616	397,628	397,072	11,965,962	12,005,688
1912	15,553,073	15,692,701	556,276	557,575	16,109,349	16,250,276
1913	13,488,539	13,703,421	602,324	609,594	14,090,863	14,313,015
1914	13,982,811	14,156,486	631,153	638,881	14,613,964	14,795,367
1915	15,905,840	16,134,930	832,401	856,900	16,738,241	16,991,830
1916	11,068,173	11,191,820	944,640	931,141	12,012,813	12,122,961
1917	11,363,915	11,449,930	1,300,163	1,330,714	12,664,078	12,780,644
1918	11,248,242	11,302,375	1,096,422	1,125,719	12,344,664	12,428,094
1919	11,906,480	12,040,532	910,236	929,516	12,816,716	12,970,048
1920	11,325,532	11,420,763	595,093	607,969	11,920,625	12,028,732
1921	13,270,970	13,439,603	429,005	440,313	13,699,975	13,879,916
1922	7,977,778	7,953,641	382,375	397,752	8,360,153	8,351,393
1923	9,729,306	9,762,069	590,537	607,779	10,319,843	10,369,848
1924	10,170,694	10,139,671	639,540	668,600	10,810,234	10,808,271
1925	13,639,399	13,627,936	857,962	897,375	14,497,361	14,525,311
1926	16,122,516	16,103,679	1,044,495	1,114,877	17,167,011	17,218,556
1927	17,755,070	17,977,374	1,041,864	1,157,861	18,796,934	19,135,235
1928	12,783,112	12,956,043	875,121	1,016,375	13,658,233	13,972,418

Summary of Commercial Crops of American Cotton

[In running bales, including linters for cotton years]

Source: New Orleans Cotton Exchange

	1923-24	1924-25	1925-26	1926-27	1927-28
Port receipts . . .	6,591,008	9,557,735	10,037,693	12,902,055	8,556,783
Overland to mills . .	880,814	1,294,406	1,517,750	1,628,931	1,202,932
Southern consumption .	3,985,328	4,380,118	4,778,926	5,471,391	5,316,168
Total movement . .	11,817,150	15,232,259	16,334,279	20,002,377	15,075,883
Less taken by southern mills from ports . .	526,753	533,903	719,572	796,448	631,949
Total crops . . .	11,290,397	14,698,356	15,614,707	19,205,929	14,443,934

United States Commercial Crops of Cotton

[Cotton years]

Source: New Orleans Cotton Exchange

STATE	1923-24	1924-25	1925-26	1926-27	1927-28
Alabama	710,000	1,042,000	1,244,000	1,523,000	1,280,000
Arkansas	725,000	1,163,000	1,443,000	1,803,000	1,213,000
Florida	15,000	21,000	41,000	35,000	21,000
Georgia	790,000	1,135,000	1,174,000	1,615,000	1,270,000
Louisiana	394,000	515,000	833,000	843,000	595,000
Oklahoma	705,000	1,610,000	1,606,000	1,846,000	1,119,000
Mississippi	758,000	1,220,000	1,847,000	1,971,000	1,551,000
North Carolina, etc. ¹	1,262,000	972,000	1,138,000	1,407,000	1,023,000
South Carolina	920,000	903,000	910,000	1,093,000	856,000
Tennessee, etc. ²	609,000	878,000	1,133,000	1,172,000	823,000
Texas	4,402,000	5,239,000	4,246,000	5,898,000	4,693,000
Total crop	11,290,000	14,698,000	15,615,000	19,206,000	14,444,000

¹ Including Virginia and Kentucky.

² Including Missouri, California, Arizona, etc.

United States Production of Cotton, Exclusive of Linters

[Running bales, counting round as half bales for cotton years]

Source: United States Bureau of the Census

STATE	1923	1924	1925	1926	1927	1928 ¹
Alabama	599,140	985,653	1,356,402	1,470,404	1,173,430	1,096,030
Arizona	77,704	109,950	115,359	120,089	90,281	145,732
Arkansas	643,643	1,086,814	1,594,389	1,513,382	979,481	1,208,467
California	55,313	79,938	122,260	128,835	89,998	170,954
Florida	13,628	19,756	40,208	33,231	17,361	20,053
Georgia	612,812	1,030,202	1,192,952	1,498,473	1,111,399	1,051,985
Louisiana	373,812	498,396	912,246	826,179	543,153	685,036
Mississippi	622,617	1,116,350	1,985,524	1,857,525	1,346,489	1,459,165
Missouri	124,676	192,981	292,950	215,769	116,024	145,078
New Mexico	28,333	55,858	64,706	70,206	64,920	82,157
North Carolina	1,053,402	860,147	1,147,340	1,246,754	879,677	866,921
Oklahoma	665,904	1,506,077	1,680,304	1,760,644	1,009,626	1,185,802
South Carolina	793,817	837,815	929,040	1,025,991	738,550	742,870
Tennessee	235,344	355,919	513,130	442,052	355,975	421,489
Texas	4,212,248	4,850,956	4,098,249	5,477,788	4,229,367	4,937,455
Virginia	51,982	40,180	54,016	51,891	30,705	44,512
All other states	6,319	12,417	23,441	15,857	6,676	5,607
Total	10,170,594	13,639,399	16,122,516	17,755,070	12,783,112	14,269,313

¹ March, 1929, preliminary report.

Cotton Grade and Staple Report

Source: United States

GRADE			STAPLE IN INCHES					
DESIGNATION	TOTAL		¹³ / ₁₆ AND UNDER ¹		⁷ / ₈		¹⁵ / ₁₆	
	Bales	Per Cent	Bales	Per Cent	Bales	Per Cent	Bales	Per Cent
Crop (total) . . .	14,269,313	100.00 ²	2,047,129	14.35	5,947,140	41.68	3,243,985	22.73
Upland (total) . . .	14,241,003	99.80	2,047,129	14.35	5,947,140	41.68	3,243,985	22.73
Extra white (total) . . .	418,271	2.93	7,907	.06	41,836	.29	57,653	.40
No. 3-G. M.	157,325	1.10	2,980	.02	24,275	.17	32,951	.23
No. 4-S. M.	140,226	.98	1,491	.01	9,406	.06	16,454	.12
No. 5-M.	94,572	.66	1,444	.01	4,239	.03	5,466	.04
No. 6-S. L. M. . . .	18,829	.13	774	— ³	2,470	.02	1,839	.01
No. 7-L. M.	7,319	.05	1,218	— ³	1,446	.01	943	— ³
White (total)	11,971,092	83.89	1,634,621	11.46	5,004,669	35.07	2,831,998	19.85
No. 1-M. F.	704	— ³	234	— ³	186	— ³	145	— ³
No. 2-S. G. M. . . .	42,630	.30	10,424	.07	18,272	.13	8,712	.06
No. 3-G. M.	1,638,279	11.48	327,078	2.30	617,971	4.33	381,000	2.67
No. 4-S. M.	4,925,154	34.52	662,548	4.64	2,075,531	14.54	1,175,619	8.24
No. 5-M.	3,248,883	22.77	339,553	2.38	1,395,993	9.78	779,389	5.46
No. 6-S. L. M. . . .	1,366,193	9.57	173,003	1.21	581,731	4.08	310,547	2.18
No. 7-L. M.	430,724	3.02	75,405	.53	188,821	1.32	91,671	.64
No. 8-S. G. O. ¹ . . .	237,525	1.66	36,373	.26	95,962	.67	63,019	.44
No. 9-G. O. ¹	81,000	.57	10,003	.07	30,202	.21	21,896	.15
Spotted (total) . . .	1,632,867	11.44	251,682	1.76	861,853	6.04	340,183	2.38
No. 3-G. M.	157,268	1.10	19,112	.13	81,640	.57	39,671	.28
No. 4-S. M.	770,108	5.40	93,536	.66	439,994	3.08	149,844	1.05
No. 5-M.	454,530	3.19	72,830	.51	235,997	1.65	91,626	.64
No. 6-S. L. M. ¹ . . .	172,098	1.21	50,157	.35	70,677	.50	36,311	.25
No. 7-L. M. ¹	78,863	.55	16,047	.11	33,545	.24	22,731	.16
Yellow tinged (total) . .	39,719	.28	8,940	.06	20,392	.14	6,751	.05
No. 2-S. G. M. . . .	407	— ³	67	— ³	231	— ³	77	— ³
No. 3-G. M.	4,387	.03	238	— ³	3,203	.02	729	— ³
No. 4-S. M.	11,071	.08	839	— ³	7,152	.05	1,730	.01
No. 5-M. ¹	6,198	.04	1,207	— ³	3,413	.02	750	— ³
No. 6-S. L. M. ¹ . . .	9,136	.06	3,682	.03	2,971	.02	1,845	.01
No. 7-L. M. ¹	8,520	.06	2,907	.02	3,422	.02	1,620	.01
Light yellow-stain (total)	1,801	.01	202	— ³	937	— ³	226	— ³
No. 3-G. M.	394	— ³	58	— ³	221	— ³	60	— ³
No. 4-S. M. ¹	547	— ³	39	— ³	313	— ³	50	— ³
No. 5-M. ¹	860	— ³	105	— ³	403	— ³	116	— ³

¹ Untenderable.² Percentages computed to the nearest one one-hundredth of one per cent.

for the United States, 1928-29

Department of Agriculture

STAPLE IN INCHES

1 AND 1 ¹ / ₂		1 ¹ / ₁₆ AND 1 ³ / ₃₂		1 ¹ / ₈ AND 1 ³ / ₃₂		1 ³ / ₁₆ AND 1 ⁷ / ₃₂		1 ¹ / ₄ AND OVER	
Bales	Per Cent	Bales	Per Cent	Bales	Per Cent	Bales	Per Cent	Bales	Per Cent
1,605,171	11.25	765,362	5.36	446,473	3.13	157,907	1.11	56,146	.39
1,605,171	11.25	765,362	5.36	446,473	3.13	157,907	1.11	27,836	.19
116,963	.82	164,251	1.15	29,536	.21	96	— ³	29	— ³
42,005	.29	44,930	.31	10,122	.07	37	— ³	25	— ³
46,997	.33	57,718	.41	8,106	.06	50	— ³	4	— ³
21,843	.15	52,427	.37	9,153	.06	—	—	—	—
4,129	.03	7,681	.05	1,936	.01	—	—	—	—
1,989	.01	1,495	.01	219	— ³	9	— ³	—	—
1,361,807	9.54	559,732	3.92	398,454	2.79	152,856	1.07	26,955	.19
65	— ³	63	— ³	11	— ³	—	—	—	—
3,793	.03	627	— ³	328	— ³	239	— ³	235	— ³
173,110	1.21	61,813	.43	48,986	.34	22,755	.16	5,566	.04
575,944	4.04	201,320	1.41	152,093	1.07	69,909	.49	12,190	.09
385,653	2.70	169,542	1.19	127,095	.89	44,241	.31	7,417	.05
152,622	1.07	82,946	.58	52,048	.37	11,928	.08	1,368	— ³
35,702	.25	23,892	.17	12,049	.08	3,064	.02	120	— ³
24,592	.17	12,708	.09	4,209	.03	615	— ³	47	— ³
10,326	.07	6,821	.05	1,635	.01	105	— ³	12	— ³
119,488	.84	37,892	.27	16,277	.11	4,651	.03	841	— ³
12,830	.09	2,662	.02	752	— ³	498	— ³	103	— ³
57,817	.41	17,863	.13	7,969	.06	2,540	.02	545	— ³
34,296	.24	12,737	.09	5,595	.04	1,267	— ³	182	— ³
9,665	.07	3,430	.02	1,535	.01	312	— ³	11	— ³
4,880	.03	1,200	— ³	426	— ³	34	— ³	—	—
2,753	.02	480	— ³	381	— ³	22	— ³	—	—
20	— ³	—	—	12	— ³	—	—	—	—
144	— ³	39	— ³	34	— ³	—	—	—	—
868	— ³	219	— ³	241	— ³	22	— ³	—	—
567	— ³	178	— ³	83	— ³	—	—	—	—
593	— ³	34	— ³	11	— ³	—	—	—	—
561	— ³	10	— ³	—	—	—	—	—	—
287	— ³	85	— ³	54	— ³	10	— ³	—	—
11	— ³	23	— ³	11	— ³	10	— ³	—	—
91	— ³	43	— ³	11	— ³	—	—	—	—
185	— ³	19	— ³	32	— ³	—	—	—	—

³ Less than one one-hundredth of one per cent.

Cotton Grade and Staple Report

Source: United States

GRADE			STAPLE IN INCHES					
DESIGNATION	TOTAL		$1\frac{3}{16}$ AND UNDER ¹		$\frac{7}{8}$		$1\frac{5}{16}$	
	Bales	Per Cent	Bales	Per Cent	Bales	Per Cent	Bales	Per Cent
Yellow stained (total) .	919	— ³	53	— ³	699	— ³	135	— ³
No. 3-G. M. . .	197	— ³	9	— ³	157	— ³	31	— ³
No. 4-S. M. ¹ . .	382	— ³	—	—	336	— ³	35	— ³
No. 5-M. ¹ . . .	340	— ³	44	— ³	206	— ³	69	— ³
Gray (total) . . .	21,004	.15	1,358	— ³	11,403	.08	2,758	.02
No. 3-G. M. . . .	3,614	.03	193	— ³	2,651	.02	342	— ³
No. 4-S. M. . . .	12,837	.09	723	— ³	7,293	.05	1,575	.01
No. 5-M. ¹	4,553	.03	442	— ³	1,459	.01	841	— ³
Blue stained (total) .	1,587	.01	119	— ³	1,336	— ³	39	— ³
No. 3-G. M. ¹ . . .	425	— ³	19	— ³	394	— ³	12	— ³
No. 4-S. M. ¹ . . .	894	— ³	100	— ³	728	— ³	27	— ³
No. 5-M. ¹	268	— ³	—	—	214	— ³	—	—
No grade ¹ , ⁴ . . .	153,743	1.08	142,247 ⁴	1.00	4,015	.03	4,242	.03

¹ Untenderable.² Percentages computed to the nearest one one-hundredth of one per cent.

for the United States, 1928-29 — (Continued)

Department of Agriculture

STAPLE IN INCHES									
1 AND 1 ¹ / ₃₂		1 ¹ / ₁₆ AND 1 ³ / ₃₂		1 ¹ / ₈ AND 1 ⁵ / ₃₂		1 ³ / ₁₆ AND 1 ⁷ / ₃₂		1 ¹ / ₄ AND OVER	
Bales	Per Cent	Bales	Per Cent	Bales	Per Cent	Bales	Per Cent	Bales	Per Cent
-	-	11	- ³	11	- ³	10	- ³	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	11	- ³	-	-	-	-
-	-	11	- ³	-	-	10	- ³	-	-
2,000	.01	1,967	.01	1,358	- ³	160	- ³	-	-
193	- ³	110	- ³	113	- ³	12	- ³	-	-
1,339	- ³	1,300	- ³	560	- ³	47	- ³	-	-
468	- ³	557	- ³	685	- ³	101	- ³	-	-
42	- ³	39	- ³	12	- ³	-	-	-	-
-	-	-	-	-	-	-	-	-	-
13	- ³	26	- ³	-	-	-	-	-	-
29	- ³	13	- ³	12	- ³	-	-	-	-
1,831	.01	905	- ³	390	- ³	102	- ³	11	- ³

³ Less than one one-hundredth of one per cent.

⁴ Includes all bales not otherwise classified above.

American-Egyptian Cotton ¹

[illegible]

⁴ Includes all bales not otherwise classified above.

Staple Lengths of Upland Cotton

STAPLE IN INCHES	Bales	Per Cent
Total	14,241,003	99.80
$1^{3/16}$ and under	2,047,129	14.35
$7/8$	5,947,140	41.68
$1^{5/16}$	3,243,985	22.73
1 and $1^{1/32}$	1,605,171	11.25
$1^{1/16}$ and $1^{3/32}$	765,362	5.36
$1^{1/8}$ and $1^{5/32}$	446,473	3.13
$1^{3/16}$ and $1^{7/32}$	157,907	1.11
$1^{1/4}$ and over	27,836	.19

**Estimated Number of Bales Tenderable and Untenderable on Section
5 Contracts**

	Bales	Per Cent
Total upland cotton	14,241,003	99.80
Total tenderable	11,701,894	82.01
Tenderable $\frac{7}{8}$ " to $1\frac{1}{32}$ ", inclusive	10,340,671	72.47
Tenderable over $1\frac{1}{32}$ "	1,361,223	9.54
Total untenderable	2,539,109	17.79

Active and Idle Ginneries in the United States and Average Number of Running Bales ginned per Active Establishment

Source: United States Bureau of the Census

COTTON YEAR	Total Ginneries	Active Ginneries	Idle Ginneries	Bales ginned per Establishment
1917-18	24,272	20,351	3,921	553
1918-19	23,439	19,259	4,180	618
1919-20	22,418	18,815	3,603	602
1920-21	21,876	18,440	3,436	720
1921-22	20,938	16,192	4,746	493
1922-23	19,939	15,420	4,519	631
1923-24	19,195	15,298	3,897	665
1924-25	18,656	15,478	3,178	881
1925-26	18,262	15,482	2,780	1,041
1926-27	18,179	15,753	2,426	1,127
1927-28	17,566	14,863	2,703	860

Estimated Values of Cotton and Cotton Seed produced

Source: United States Bureau of the Census

COTTON YEAR	Value of Cotton produced	Value of Cotton Seed produced	Total Value of Cotton Crop
1917-18	\$1,532,690,000	\$333,550,000	\$1,866,240,000
1918-19	1,737,710,000	349,490,000	2,087,200,000
1919-20	2,030,960,000	340,470,000	2,371,430,000
1920-21	1,067,240,000	136,990,000	1,204,230,000
1921-22	675,630,000	104,560,000	780,190,000
1922-23	1,117,060,000	150,400,000	1,267,460,000
1923-24	1,455,170,000	190,050,000	1,645,220,000
1924-25	1,561,010,000	206,220,000	1,767,230,000
1925-26	1,577,480,000	220,360,000	1,797,840,000
1926-27	1,121,110,000	172,120,000	1,293,230,000
1927-28	1,308,040,000	206,960,000	1,515,000,000

Yearly Average Prices of Cotton and Cotton Seed paid to Producers in the United States

Source: United States Bureau of the Census

COTTON YEAR	Yearly Average Price of Lint Cotton per Pound (in Cents)	Yearly Average Price of Cotton Seed per Ton
1917-18	27.12	\$66.08
1918-19	28.76	65.32
1919-20	35.36	67.18
1920-21	15.89	22.92
1921-22	16.90	29.72
1922-23	22.85	34.70
1923-24	28.70	42.22
1924-25	22.91	34.16
1925-26	19.59	30.88
1926-27	12.47	21.63
1927-28	20.19	35.93

Cotton ginned to Specified Dates and throughout the Season

[Running bales, except that round bales are counted as half bales. Linters are not included]

Source: United States Bureau of the Census

COTTON GINNED TO —	COTTON YEAR					
	1923-24	1924-25	1925-26	1926-27	1927-28	1928-29
September 1	1,142,660	947,494	1,886,399	696,556	1,533,577	956,486
September 25	3,235,974	4,527,668 ²	7,126,248 ²	2,509,103 ²	3,504,995 ²	2,498,252 ²
October 18	6,409,391	7,615,981	9,518,946	8,727,709	8,117,625	8,147,301
November 1	7,556,042	9,715,643	11,207,197	11,253,873	9,920,846	10,160,997
November 14	8,369,498	11,162,235	12,260,352	12,956,444	10,894,912	11,320,302
December 1	9,243,380	12,237,659	13,870,507	14,644,070	11,738,338	12,561,618
December 13	9,549,015	12,792,294	14,831,846	15,540,804	12,072,763	13,148,411
January 1	9,811,038	— ³	— ³	— ³	— ³	— ³
January 16	9,944,032	13,306,813	15,499,893	16,616,075	12,501,447	13,891,857
Total gin- nings	10,170,594	13,639,399	16,122,516	17,755,070	12,783,112	14,269,313 ¹

¹ March, 1929, preliminary report.

² Ginned to September 16.

³ No ginning report.

Per Cent of Total Cotton ginned to Specified Dates

Source: United States Bureau of the Census

PER CENT GINNED TO —	COTTON YEAR						
	1922-23	1923-24	1924-25	1925-26	1926-27	1927-28	1928-29 ¹
September 1	8.3	11.2	7.0	11.7	3.9	12.1	6.7
September 25	39.7	31.8	33.1 ²	44.1 ²	14.1 ²	27.4 ²	17.5 ²
October 18	71.7	63.0	55.9	59.0	49.2	63.5	57.0
November 1	83.7	74.3	71.2	69.6	63.4	77.7	71.2
November 14	91.2	82.3	81.8	76.0	69.0	85.3	79.2
December 1	95.8	90.9	89.6	86.0	82.4	91.9	88.0
December 13	97.5	93.9	93.6	92.0	87.5	94.4	92.2
January 1	98.6	96.4	— ³	— ³	— ³	— ³	— ³
January 16	99.2	97.8	97.7	96.1	93.5	97.8	97.4

¹ Preliminary estimates.

² Ginned to September 16.

³ No ginning report.

Estimated Quantity of Cotton Seed produced, Quantity of Cotton Seed crushed, and Quantities and Values of Crude Products obtained

Statistics of the quantity of seed produced relate to the preceding crop year. Those of the quantity crushed and of the quantities and values of products obtained relate to the year ending July 31.

Source: United States Bureau of the Census

Year	Cotton Seed produced (Tons)	Cotton Seed crushed (Tons)	Total Value of Products	Quantity of Oil (pounds)	Value of Oil	Quantity of Cake and Meal (Tons)	Value of Cake and Meal	Quantity of Hulls (Tons)	Value of Hulls	Quantity of Linters (Bales)	Value of Linters
1914	6,305,000	4,847,628	\$159,670,000	1,449,975,000	\$81,020,000	2,220,000	\$59,810,000	1,400,000	\$11,210,000	631,153	\$7,630,000
1915	7,186,000	5,779,665	152,880,000	1,719,450,000	80,540,000	2,648,000	57,740,000	1,677,000	8,450,000	832,401	6,150,000
1916	4,992,000	4,202,313	180,260,000	1,253,325,000	87,940,000	1,923,000	53,860,000	1,220,000	12,340,000	944,640	26,120,000
1917	5,113,000	4,479,176	287,192,000	1,407,660,000	153,419,000	2,225,000	74,586,000	969,000	13,994,000	1,300,163	45,193,000
1918	5,040,000	4,251,680	360,736,000	1,312,470,000	217,902,000	2,068,000	97,352,000	996,000	18,878,000	1,096,422	26,604,000
1919	5,360,000	4,478,508	383,580,000	1,325,333,000	227,316,000	2,170,000	116,119,000	1,137,000	17,917,000	910,236	22,228,000
1920	5,074,000	4,012,704	352,138,000	1,211,404,000	209,668,000	1,817,000	119,039,000	1,143,000	11,095,000	595,093	12,336,000
1921	5,971,000	4,069,166	156,513,000	1,309,183,000	84,650,000	1,786,000	58,298,000	1,256,000	10,039,000	429,005	3,506,000
1922	3,531,000	3,007,717	136,974,000	930,474,738	71,508,000	1,355,000	49,898,000	937,000	8,949,000	382,375	6,619,000
1923	4,336,000	3,241,557	173,254,000	1,002,922,464	84,818,000	1,487,000	59,037,000	944,000	12,200,000	590,537	17,199,000
1924	4,502,000	3,307,598	182,137,000	979,617,065	88,093,000	1,518,000	59,300,000	941,000	12,737,000	639,540	22,007,000
1925	6,051,000	4,605,227	240,855,000	1,403,781,177	126,665,000	2,125,618	79,173,000	1,330,764	13,749,000	857,962	21,268,000
1926	7,150,000	5,558,243	256,027,000	1,617,014,721	138,652,000	2,596,715	81,508,000	1,547,351	12,649,000	1,044,495	23,219,000
1927	7,989,000	6,305,775	240,284,000	1,887,910,155	142,242,000	2,840,084	72,476,000	1,854,389	8,882,000	1,041,864	16,684,000
1928	5,758,000	4,654,017	247,827,000	1,476,609,401	132,372,000	2,093,354	80,582,000	1,320,066	9,995,000	875,121	24,878,000

World's Takings of American Cotton during Past Four Seasons

[In thousands of running bales. Linters included]

Source: New York Cotton Exchange

WEEK ENDING —		1924-25		1925-26		1926-27		1927-28	
		Week	Season	Week	Season	Week	Season	Week	Season
August	5	18	18	—	—	150	150	213	213
	12	82	100	155	155	180	330	222	435
	19	155	255	172	327	172	502	230	665
	26	105	360	161	488	194	696	261	926
September	2	135	495	147	635	236	932	221	1,147
	9	155	650	241	876	220	1,152	248	1,395
	16	178	828	241	1,117	253	1,405	242	1,637
	23	193	1,021	299	1,416	274	1,679	325	1,962
	30	201	1,222	288	1,704	338	2,017	351	2,313
October	7	304	1,526	290	1,994	377	2,394	337	2,650
	14	306	1,832	347	2,341	455	2,849	383	3,033
	21	359	2,191	420	2,761	451	3,300	420	3,453
	28	367	2,558	465	3,226	451	3,751	454	3,907
November	4	365	2,923	472	3,698	425	4,176	440	4,347
	11	348	3,271	463	4,161	459	4,635	435	4,782
	18	398	3,669	420	4,581	441	5,076	402	5,184
	25	511	4,180	457	5,038	466	5,542	389	5,573
December	2	429	4,609	414	5,452	476	6,018	428	6,001
	9	425	5,034	444	5,896	460	6,478	395	6,396
	16	419	5,453	515	6,411	445	6,923	377	6,773
	23	367	5,820	405	6,816	430	7,353	331	7,104
	30	348	6,168	385	7,201	399	7,752	315	7,419
January	6	338	6,506	371	7,572	352	8,104	317	7,736
	13	409	6,915	359	7,931	352	8,456	361	8,097
	20	423	7,338	354	8,285	389	8,849	303	8,400
	27	309	7,647	324	8,609	409	9,254	321	8,721
February	3	357	8,004	349	8,958	448	9,702	329	9,050
	10	396	8,400	340	9,298	481	10,183	305	9,355
	17	344	8,744	298	9,596	417	10,600	274	9,629
	24	386	9,130	322	9,918	376	10,976	288	9,917
March	2	320	9,450	278	10,196	430	11,406	255	10,172
	9	350	9,800	308	10,504	426	11,832	260	10,432
	16	350	10,150	293	10,797	432	12,264	281	10,713
	23	378	10,528	284	11,081	407	12,671	306	11,019
	30	356	10,884	265	11,346	335	13,006	242	11,261
April	6	320	11,204	241	11,587	304	13,310	254	11,515
	13	247	11,451	253	11,840	333	13,643	255	11,770
	20	220	11,671	218	12,058	274	13,917	275	12,045
	27	214	11,885	238	12,296	368	14,285	267	12,312
May	4	283	12,168	266	12,562	415	14,700	282	12,594
	11	242	12,410	181	12,743	374	15,074	277	12,871
	18	265	12,675	165	12,908	317	15,391	228	13,099
	25	237	12,912	252	13,160	266	15,657	214	13,313
June	1	203	13,115	181	13,341	288	15,945	239	13,552
	8	198	13,313	228	13,569	250	16,195	202	13,754
	15	203	13,516	212	13,781	333	16,528	269	14,023
	22	194	13,710	188	13,969	344	16,872	246	14,269
	29	165	13,875	183	14,152	274	17,146	221	14,490
July	6	150	14,025	200	14,352	296	17,442	203	14,693
	13	180	14,205	140	14,492	186	17,628	236	14,929
	20	157	14,362	187	14,679	216	17,844	196	15,125
	27	171	14,533	189	14,868	284	18,128	195	15,320
	31	236	14,769	215	15,083	69	18,197	104	15,424

American (including Canadian) Takings of American Cotton during Past Four Seasons

[In thousands of running bales. Linters included]

Source: New York Cotton Exchange

WEEK ENDING —		1924-25		1925-26		1926-27		1927-28	
		Week	Season	Week	Season	Week	Season	Week	Season
August	5 . .	8	8	52	52	63	63	65	65
	12 . .	43	51	64	116	92	155	79	144
	19 . .	41	92	60	176	74	229	84	228
	26 . .	60	152	63	239	67	296	86	314
September	2 . .	52	204	154	393	102	398	98	412
	9 . .	88	292	153	546	117	515	104	516
	16 . .	86	378	173	719	160	675	134	650
	23 . .	118	496	182	901	172	847	163	813
	30 . .	118	614	166	1,067	174	1,021	207	1,020
October	7 . .	161	775	189	1,256	222	1,243	178	1,198
	14 . .	167	942	263	1,519	237	1,580	191	1,389
	21 . .	188	1,130	282	1,801	246	1,826	223	1,612
	28 . .	199	1,329	281	2,082	258	2,084	232	1,844
November	4 . .	230	1,559	219	2,301	238	2,322	227	2,071
	11 . .	194	1,753	242	2,543	240	2,562	233	2,304
	18 . .	227	1,980	231	2,774	229	2,791	237	2,541
	25 . .	233	2,213	204	2,978	233	3,024	218	2,759
December	2 . .	256	2,469	261	3,239	234	3,258	223	2,982
	9 . .	229	2,698	269	3,508	236	3,494	213	3,195
	16 . .	208	2,906	200	3,708	221	3,715	192	3,387
	23 . .	191	3,097	176	3,884	209	3,924	153	3,540
	30 . .	165	3,262	192	4,076	197	4,121	151	3,691
January	6 . .	193	3,455	189	4,265	165	4,286	171	3,862
	13 . .	188	3,643	171	4,436	183	4,469	168	4,030
	20 . .	207	3,850	134	4,570	165	4,634	138	4,168
	27 . .	156	4,006	128	4,698	162	4,796	128	4,296
February	3 . .	161	4,167	175	4,873	200	4,996	164	4,460
	10 . .	190	4,357	172	5,045	197	5,193	145	4,605
	17 . .	169	4,526	135	5,180	174	5,367	138	4,743
	24 . .	171	4,697	122	5,302	156	5,523	135	4,878
March	2 . .	159	4,856	135	5,437	194	5,717	101	4,979
	9 . .	173	5,029	136	5,573	176	5,893	112	5,091
	16 . .	165	5,194	126	5,699	181	6,074	132	5,223
	23 . .	170	5,364	123	5,822	162	6,232	133	5,356
	30 . .	171	5,535	120	5,942	128	6,364	120	5,476
April	6 . .	118	5,653	121	6,063	119	6,483	136	5,612
	13 . .	100	5,753	102	6,165	110	6,593	111	5,723
	20 . .	109	5,862	94	6,259	133	6,726	113	5,836
	27 . .	95	5,957	90	6,349	142	6,868	106	5,942
May	4 . .	105	6,062	83	6,432	152	7,020	139	6,081
	11 . .	100	6,162	76	6,508	148	7,168	120	6,201
	18 . .	85	6,247	78	6,586	128	7,296	87	6,288
	25 . .	79	6,326	86	6,672	103	7,399	80	6,368
June	1 . .	74	6,400	101	6,773	116	7,515	86	6,454
	8 . .	75	6,475	100	6,873	116	7,631	76	6,530
	15 . .	74	6,549	79	6,952	124	7,655	91	6,621
	22 . .	64	6,613	68	7,020	130	7,785	79	6,700
	29 . .	59	6,672	79	7,099	108	7,893	79	6,779
July	6 . .	45	6,717	56	7,155	108	8,001	76	6,855
	13 . .	38	6,755	83	7,238	91	8,092	76	6,931
	20 . .	53	6,808	82	7,320	92	8,184	56	6,987
	27 . .	63	6,871	69	7,399	101	8,285	61	7,048
	31 . .	71	6,942	28	7,417	48	8,333	52	7,100

Movement of American Crop into Sight during Past Four Seasons

[In thousands of running bales. Linters included]

Source: New York Cotton Exchange

WEEK ENDING —		1924-25		1925-26		1926-27		1927-28	
		Week	Season	Week	Season	Week	Season	Week	Season
August	5	6	6	—	—	55	55	108	108
	12	52	58	82	82	99	154	138	246
	19	64	122	112	194	113	267	160	406
	26	79	201	175	369	135	402	209	615
September	2	177	378	278	647	256	658	342	957
	9	268	646	475	1,122	298	956	365	1,322
	16	365	1,011	517	1,639	504	1,460	468	1,790
	23	481	1,492	629	2,268	634	2,094	568	2,358
	30	516	2,008	710	2,978	847	2,941	714	3,072
October	7	588	2,596	735	3,713	940	3,881	695	3,767
	14	647	3,243	721	4,434	933	4,814	653	4,420
	21	741	3,984	788	5,522	918	5,732	692	5,112
	28	685	4,669	771	5,993	853	6,585	752	5,864
November	4	723	5,392	763	6,756	823	7,408	717	6,581
	11	664	6,056	692	7,448	804	8,212	644	7,225
	18	684	6,740	621	8,069	799	9,011	570	7,795
	25	720	7,460	622	8,691	736	9,747	464	8,259
December	2	660	8,120	608	9,299	741	10,488	482	8,741
	9	629	8,749	649	9,948	685	11,173	433	9,174
	16	493	9,242	624	10,572	614	11,787	351	9,525
	23	506	9,748	528	11,100	522	12,309	293	9,818
	30	406	10,154	459	11,559	496	12,805	309	10,127
January	6	422	10,576	409	11,968	349	13,154	221	10,348
	13	366	10,942	303	12,271	389	13,543	226	10,574
	20	378	11,313	264	12,535	414	13,957	196	10,770
	27	268	11,581	277	12,812	360	14,317	192	10,962
February	3	258	11,839	247	13,059	343	14,660	225	11,187
	10	263	12,102	250	13,309	337	14,997	188	11,375
	17	297	12,399	244	13,553	303	15,300	197	11,572
	24	257	12,656	241	13,794	328	15,628	166	11,738
March	2	233	12,889	184	13,978	320	15,948	112	11,850
	9	240	13,129	174	14,152	326	16,274	123	11,973
	16	224	13,353	166	14,318	310	16,584	175	12,148
	23	215	13,568	158	14,476	283	16,867	171	12,319
	30	176	13,744	172	14,648	229	17,096	179	12,498
April	6	100	13,844	146	14,794	177	17,273	158	12,656
	13	95	13,939	135	14,929	187	17,460	143	12,799
	20	83	14,022	128	15,057	185	17,645	136	12,935
	27	94	14,116	114	15,171	173	17,818	160	13,095
May	4	82	14,198	125	15,296	202	18,020	169	13,264
	11	85	14,283	99	15,395	173	18,193	171	13,435
	18	60	14,343	99	15,494	138	18,331	127	13,562
	25	59	14,402	81	15,575	98	18,429	102	13,664
June	1	65	14,467	87	15,662	107	18,536	98	13,762
	8	66	14,533	86	15,748	105	18,641	65	13,827
	15	54	14,587	85	15,833	108	18,749	73	13,900
	22	48	14,635	84	15,917	105	18,854	63	13,963
	29	46	14,681	66	15,983	85	18,939	68	14,031
July	6	30	14,711	63	16,046	90	19,029	74	14,105
	13	31	14,742	44	16,090	65	19,094	67	14,172
	20	58	14,800	59	16,149	84	19,178	40	14,212
	27	64	14,864	58	16,207	91	19,269	43	14,255
	31	78	14,942	51	16,258	31	19,300	45	14,300

¹ 7,000 bales burned.

Monthly Movement of Cotton into Sight

[Running bales, linters included]

Source: New York Cotton Exchange

	1924-25	1925-26	1926-27	1927-28
August	421,375	793,736	559,417	828,308
September	1,934,838	2,737,508	2,246,841	2,244,804
October	3,035,433	3,348,139	3,910,431	3,034,402
November	2,853,939	2,672,223	3,456,639	2,508,223
December	2,261,434	2,352,759	2,632,341	1,548,493
January	1,377,691	1,192,761	1,617,677	903,167
February	1,046,591	913,099	1,295,808	744,764
March	891,552	736,783	1,336,700	725,542
April	399,238	548,682	808,713	617,556
May	263,397	401,927	612,073	581,634
June	221,987	335,030	439,794	311,092
July	240,903	255,795	381,420	253,683
	14,948,278	16,288,442	19,297,854	14,301,668
Burned	6,604	—	—	2,980
Total into sight	14,941,674	16,288,442	19,297,854	14,298,688
Add ¹	21,259	—	426,109	49,119
Deduct ²	—	632,971	—	—
Total crop	14,962,933	15,655,471	19,723,963	14,347,807

¹ Decrease of stock at interior towns under previous year.

² Excess of stock at interior towns over previous year.

Percentage of Loss of Cotton due to Boll Weevil, Cotton Years, 1915-28

[Expressed in percentage of a normal or full yield per acre]

Source: United States Department of Agriculture

STATE	1915-16	1916-17	1917-18	1918-19	1919-20	1920-21	1921-22	1922-23	1923-24	1924-25	1925-26	1926-27	1927-28	1928-29
North Carolina .	-	-	-	-	-	-	3.58	12.27	12.97	7.49	8.04	3.24	16.0	12.0
South Carolina .	.02	.02	.01	.07	3.00	13.26	31.48	40.48	26.95	15.93	11.71	4.27	27.0	15.0
Georgia .	.28	3.44	9.06	10.73	19.36	30.56	45.12	44.28	36.62	15.11	6.68	5.09	18.0	14.0
Florida .	13.14	20.98	27.07	23.85	40.46	32.10	27.62	32.50	32.53	27.73	6.43	-	9.0	9.0
Tennessee .	.04	1.23	1.74	.37	.17	.57	7.21	8.84	20.75	2.38	.31	1.57	3.0	2.0
Virginia .	-	-	-	-	-	-	-	-	-	-	-	-	2.0	10.0
Alabama .	16.16	27.91	28.88	12.14	28.77	36.03	32.39	25.51	32.52	11.77	4.88	3.16	15.0	12.0
Mississippi .	24.68	31.73	22.22	10.41	19.56	32.25	30.38	27.65	30.82	7.38	2.99	6.26	16.0	14.0
Louisiana .	19.85	24.31	11.89	9.79	24.84	25.99	34.80	24.61	23.25	4.59	9.52	8.52	12.0	18.0
Texas .	16.28	18.53	7.26	4.43	13.96	19.90	33.66	16.25	9.96	7.63	2.35	11.09	20.0	12.0
Oklahoma .	2.70	3.70	4.35	1.30	1.48	8.81	41.36	25.67	19.33	3.93	1.83	8.49	31.0	26.0
Arkansas .	4.60	7.49	8.96	3.14	4.79	9.41	21.84	18.15	15.87	3.70	1.80	2.94	11.0	15.0
United States average ¹ .	9.93	13.36	9.34	5.83	13.20	19.95	30.98	24.17	19.55	8.01	3.87	7.04	18.5	14.1

¹ Average is weighted and includes cotton States in which there was no damage by boll weevil.

Indian Cotton Production, Acreage, and Yield per Acre

These statistics embrace all cotton produced in India, including that used in house manufacture as well as that taken by factories or exported.

[In bales of 400 pounds each]

[Cotton years]

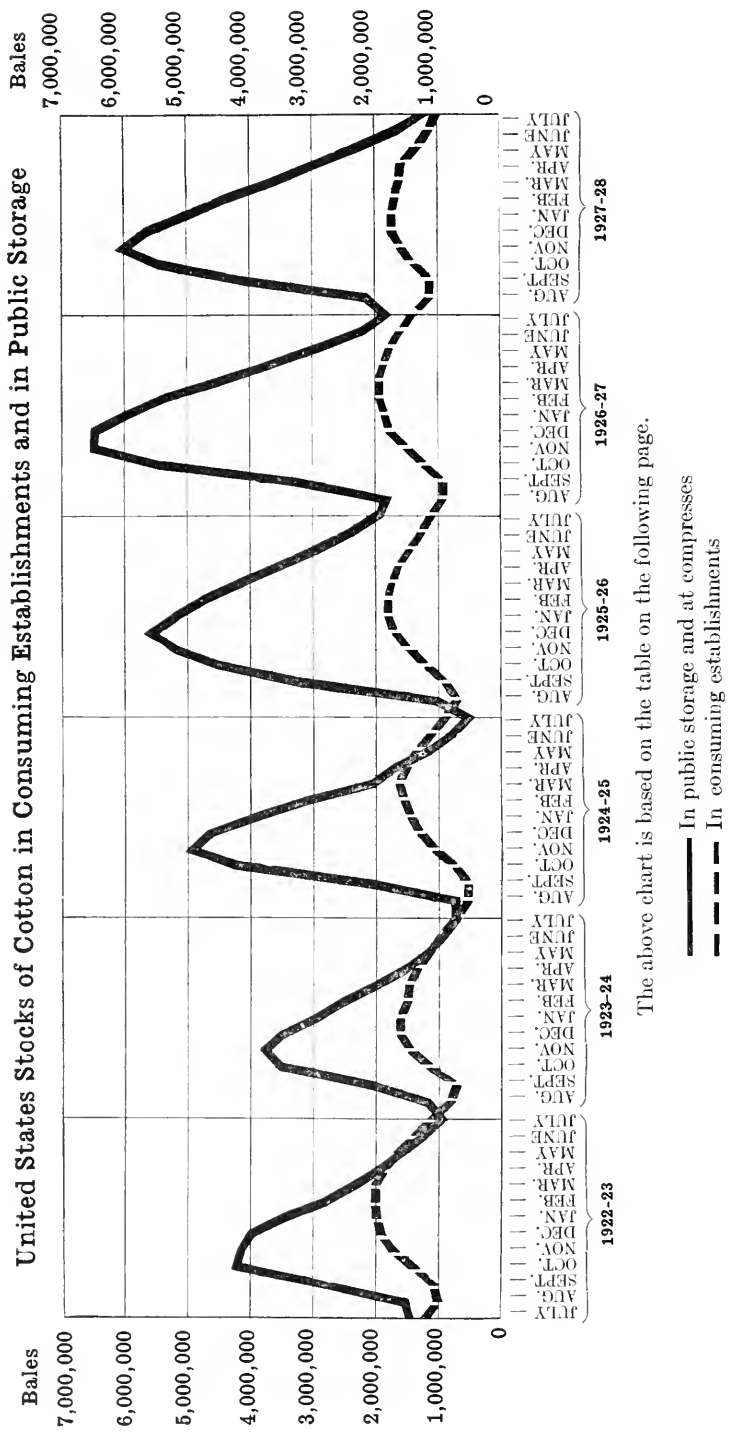
Source: Department of Commercial Intelligence and Statistics, India

PROVINCES AND STATES	PRODUCTION (IN THOUSANDS)					ACREAGE (IN THOUSANDS)					YIELD PER ACRE (IN POUNDS)							
	1924-25 1925-26 1926-27 1927-28 1928-29					1924-25 1925-26 1926-27 1927-28 1928-29					1922-23 1923-24 1924-25 1925-26 1926-27 1927-28 1928-29							
	1,589	1,566	1,267	1,431	870	7,713	8,117	6,768	6,912	7,367	90	71	82	77	75	83	86	
Bombay ²	1,589	1,566	1,267	1,431	870	7,713	8,117	6,768	6,912	7,367	90	71	82	77	75	83	86	
Central Provinces and Berar	1,000	980	977	1,235	1,301	5,247	5,385	4,864	4,796	4,972	102	83	81	73	80	103	105	
Madras ²	567	569	388	447	519	2,903	2,921	2,231	2,123	2,394	75	73	78	70	84	87	87	
Punjab ²	910	908	599	602	616	2,589	3,052	2,803	2,067	2,825	115	131	141	119	85	116	87	
United Provinces ²	276	277	259	199	255	1,049	1,004	809	643	715	108	130	105	110	128	124	143	
Burma	70	83	73	67	56	352	464	447	326	315	66	61	86	72	65	82	71	
Bengal ²	24	26	25	20	18	77	78	77	77	78	75	79	71	73	71	73	72	
Bihar and Orissa	14	15	14	14	14	79	82	79	77	78	80	87	82	87	67	73	94	
North-West Frontier	8	7	5	2	4	39	32	30	11	17	80	87	133	111	130	133	155	
Assam	15	13	15	15	17	45	47	46	45	44	130	144	133	100	67	100	200	
Delhi	1	1	1	1	1	4	6	4	2	2	152	133	100	67	100	200	200	
Ajmer-Merwara	15	17	15	14	21	45	54	43	42	44	167	127	133	126	140	133	191	
Hyderabad	899	1,060	808	951	994	3,412	3,781	3,267	3,631	4,002	117	123	105	112	99	105	99	
Central India	259	270	223	234	197	1,354	1,369	1,297	1,263	1,041	97	66	71	79	69	74	76	
Baroda	171	189	124	124	68	658	866	701	806	793	80	46	104	87	65	62	34	
Rajputana	89	93	78	97	123	418	411	404	422	465	101	88	87	91	77	92	106	
Mysore	36	25	25	25	23	118	83	97	81	76	116	71	122	120	103	123	121	
Gwalior	145	116	107	115	107	699	651	649	585	645	-	48	54	71	66	79	66	
Total	6,088	6,215	5,003	5,593	5,204	26,801	28,403	24,676	23,910	25,874	98	87	91	88	81	94	92	

¹ February, 1929, estimate.

² Includes Indian States.

United States Stocks of Cotton in Consuming Establishments and in Public Storage



The above chart is based on the table on the following page.

— In public storage and at compresses
- - - In consuming establishments

United States Stocks of Cotton in Consuming Establishments, in Public Storage and at Compresses

[American cotton is counted in running bales; foreign cotton, in equivalent 500-pound bales]

Linters are not included

The table below does not include cotton in transit, in private storage or on plantations. It embraces merely the cotton in consuming establishments, in public storage and at compresses, as compiled monthly by the United States Bureau of the Census.

At End of —	1922-23		1923-24		1924-25		1925-26		1926-27		1927-28	
	In Consuming Establishments	In Public Storage and at Compresses	In Consuming Establishments	In Public Storage and at Compresses	In Consuming Establishments	In Public Storage and at Compresses	In Consuming Establishments	In Public Storage and at Compresses	In Consuming Establishments	In Public Storage and at Compresses	In Consuming Establishments	In Public Storage and at Compresses
August	1,024,874	1,530,141	810,511	1,172,287	552,669	810,913	680,527	1,040,178	916,786	1,715,371	1,122,059	2,172,945
September	1,065,816	3,217,939	772,632	2,147,012	514,537	2,072,956	866,011	3,137,620	936,441	3,287,285	1,118,776	3,964,680
October	1,281,945	4,287,119	1,106,347	3,485,005	730,656	4,221,854	1,216,437	4,499,382	1,213,199	5,471,533	1,327,095	5,433,129
November	1,724,488	4,197,955	1,444,474	3,769,204	1,046,612	4,914,219	1,456,166	5,206,283	1,493,013	6,516,502	1,551,336	5,969,418
December	1,917,231	4,069,470	1,627,628	3,512,577	1,319,265	4,623,863	1,717,972	5,608,066	1,763,739	6,548,257	1,707,326	5,655,736
January	1,988,115	3,485,952	1,637,824	2,963,953	1,433,814	3,863,475	1,811,392	5,175,834	1,852,074	6,158,508	1,706,893	5,014,029
February	2,020,900	2,803,304	1,583,430	2,497,075	1,546,210	3,075,140	1,831,296	4,744,090	1,931,794	5,453,313	1,668,650	4,312,929
March	2,033,837	2,379,697	1,498,266	1,983,544	1,633,783	2,028,331	1,767,686	4,162,628	1,973,694	4,482,905	1,593,486	3,510,534
April	1,878,198	1,965,714	1,328,273	1,512,086	1,514,514	1,666,147	1,639,174	3,530,811	1,891,137	3,669,737	1,507,992	2,921,306
May	1,634,167	1,580,219	1,157,778	1,126,711	1,134,920	1,134,920	1,449,932	2,914,824	1,792,261	2,806,957	1,331,135	2,305,366
June	1,347,468	1,227,184	950,625	882,204	1,123,813	759,945	1,267,796	2,407,816	1,594,475	2,181,509	1,158,531	1,645,971
July	1,093,618	938,903	719,827	673,934	866,259	514,196	1,096,521	1,936,662	1,404,815	1,822,552	1,007,017	1,189,565

United States Stocks of Cotton and Linters

[American cotton in running bales, counting round as half bales; foreign cotton in equivalent 500-pound bales]

Source: United States Bureau of the Census

SEASON ENDING —	TOTAL COTTON EXCLUSIVE OF LINTERS			LINTERS			SEA ISLAND			EGYPTIAN	
	In Consuming Establishments	In Public Storage and at Compresses		In Consuming Establishments	In Public Storage and at Compresses		In Consuming Establishments	In Public Storage and at Compresses		In Consuming Establishments	In Public Storage
August, 1914	675,873	546,944		75,346	29,673		21,028	7,453		52,413	6,205
July, 1915	1,401,185	1,784,919		198,905	89,881		24,919	4,678		96,828	25,123
July, 1916	1,632,245	1,107,464		100,441	113,106		27,454	10,870		123,406	59,202
July, 1917	1,501,916	888,257		112,972	230,687		36,482	19,912		75,250	42,062
July, 1918	1,465,223	1,734,965		138,108	236,809		20,000	36,494		35,917	31,363
July, 1919	1,303,418	2,208,367		266,539	277,358		19,487	31,587		36,858	15,899
July, 1920	1,358,147	2,055,015		277,218	382,432		14,654	9,791		117,300	102,799
July, 1921	1,111,147	3,723,213		201,353	234,926		4,489	6,126		68,914	59,148
July, 1922	1,218,388	1,488,165		138,523	54,587		3,787	3,303		62,863	53,427
July, 1923	1,093,618	938,903		127,139	36,000		2,947	3,909		86,508	51,316
July, 1924	721,589	673,925		100,632	54,026		2,465	2,038		51,655	12,586
July, 1925	865,842	514,006		128,916	28,698		2,703	501		50,475	11,526
July, 1926	1,096,647	1,935,913		143,630	52,899		—	—		64,437	28,510
July, 1927	1,404,815	1,822,552		198,745	52,819		—	—		58,882	13,287
July, 1928	1,007,017	1,189,565		159,894	44,569		—	—		47,812	17,507
At end of —											
August, 1927	1,120,784	2,172,945		172,222	44,667		—	—		55,502	13,337
September, 1927	1,116,093	3,964,615		147,319	38,914		—	—		52,499	17,556
October, 1927	1,323,703	5,419,193		144,319	46,633		—	—		46,075	17,030
November, 1927	1,551,776	5,973,958		172,077	55,052		—	—		51,163	14,646
December, 1927	1,708,538	5,655,574		203,574	55,634		—	—		55,013	18,803
January, 1928	1,706,893	5,014,029		228,436	57,690		—	—		58,459	18,485
February, 1928	1,668,650	4,312,929		233,662	63,599		—	—		53,745	19,001
March, 1928	1,593,486	3,510,534		229,095	64,580		—	—		48,122	24,858
April, 1928	1,507,992	2,921,306		222,374	63,400		—	—		46,976	26,405
May, 1928	1,331,135	2,305,366		211,580	59,504		—	—		48,833	24,366
June, 1928	1,158,531	1,645,971		182,632	53,580		—	—		47,958	19,647
July, 1928	1,007,017	1,189,565		159,894	44,569		—	—		47,812	17,507

Carry-over of Cotton

The term "carry-over" has several meanings. It may refer (1) simply to cotton held in the United States, or (2) American cotton held anywhere in the world, or (3) all kinds of cotton held anywhere in the world. Statistics of carry-over as issued by trade authorities differ widely from each other each year, not only because of the various meanings of the term, as just stated, but also because some authorities count the carry-over in running bales, disregarding the fact that Egyptian bales, for example, weigh approximately 750 pounds and Indian bales only 400, while others compute the quantities of foreign cottons in equivalent 500-pound bales, and some authorities include American linters while others do not.

Following are statistics of the amount of cotton carried over from each season for several years past, as computed, on different bases, by leading authorities.

World Carry-over of American Cotton

The table below was compiled by Henry G. Hester, Secretary of the New Orleans Cotton Exchange. It includes all American cotton held in the American cotton belt, — *i.e.*, at southern mills, at counted and uncounted interior towns, and on plantations, — stocks at northern mills and at the ports of the United States, and stocks at European ports and at European mills. This embraces practically all American cotton held anywhere in the world. The only stocks not included in this table are those in Japan and scattering stocks in the less important manufacturing countries where some American cotton may be found, such as Canada and Mexico. The cotton is counted in running bales, round bales being counted as half bales.

DATE							Including Linters	Exclusive of Linters
July 31, 1915	.	.	.	.	.	.	7,701,000	7,551,000
July 31, 1916	.	.	.	.	.	.	5,105,000	4,742,000
July 31, 1917	.	.	.	.	.	.	4,305,000	3,688,000
July 31, 1918	.	.	.	.	.	.	4,422,000	4,018,000
July 31, 1919	.	.	.	.	.	.	6,909,000	6,094,000
July 31, 1920	.	.	.	.	.	.	6,216,000	5,216,000
July 31, 1921	.	.	.	.	.	.	9,364,000	8,699,000
July 31, 1922	.	.	.	.	.	.	4,879,000	4,547,000
July 31, 1923	.	.	.	.	.	.	2,573,000	2,396,000
July 31, 1924	.	.	.	.	.	.	2,319,000	2,089,000
July 31, 1925	.	.	.	.	.	.	2,991,000	2,826,000
July 31, 1926	.	.	.	.	.	.	5,639,000	5,378,000
July 31, 1927	.	.	.	.	.	.	7,298,000	7,012,000
July 31, 1928	.	.	.	.	.	.	5,298,000	5,078,000

Mid-Season Stocks of All Cottons in the World

[American cotton in running bales; foreign cotton in equivalent bales of 478 pounds net weight; American linters not included]

Source: Garside Cotton Service

	MID-SEASON STOCKS OF ALL COTTONS				
	Jan. 31, 1924	Jan. 31, 1925	Jan. 31, 1926	Jan. 31, 1927	Jan. 31, 1928
In public storage, etc.:					
Farms, etc., in United States . . .	1,108,000	1,823,000	2,252,000	3,487,000	1,782,000
Public storage in United States . . .	2,958,000	3,861,000	5,176,000	6,155,000	5,014,000
Unmarketed Foreign Crops ¹ . . .	4,364,000	5,509,000	5,614,000	5,011,000	5,662,000
Alexandria . . .	368,000	377,000	453,000	654,000	637,000
Bombay . . .	326,000	330,000	377,000	412,000	487,000
Afloat to Europe . . .	745,000	813,000	589,000	893,000	633,000
Ports in Europe . . .	1,312,000	1,649,000	1,613,000	2,574,000	2,127,000
Elsewhere ² . . .	619,000	771,000	749,000	1,029,000	1,016,000
Total . . .	11,800,000	15,133,000	16,823,000	20,215,000	17,358,000
In Mills:					
United States . . .	1,632,000	1,441,000	1,814,000	1,853,000	1,709,000
Great Britain . . .	278,000	256,000	285,000	249,000	218,000
Continent . . .	758,000	931,000	1,095,000	1,099,000	1,308,000
Elsewhere . . .	1,154,000	1,096,000	1,090,000	1,097,000	1,225,000
Total . . .	3,822,000	3,724,000	4,284,000	4,298,000	4,460,000
Grand Total . . .	15,622,000	18,857,000	21,107,000	24,513,000	21,818,000

¹ Includes stocks in interior of India and Egypt, and estimated unpicked or unmarketed portions of crops of India, Russia, Brazil, China, and minor cotton-producing countries.

² Includes cotton afloat to and in warehouses in the Orient.

Carry-over Stocks of All Cottons in the World

[American cotton in running bales; foreign cottons in equivalent bales of 478 pounds net weight; American linters not included]

Source: Garside Cotton Service

	CARRY-OVER OF ALL COTTONS				
	July 31, 1924	July 31, 1925	July 31, 1926	July 31, 1927	July 31, 1928
In public storage, etc.:					
Farms, etc., in United States . . .	160,000	230,000	510,000	535,000	335,000
Public storage in United States .	673,000	506,000	1,929,000	1,820,000	1,190,000
Alexandria . . .	76,000	82,000	309,000	479,000	312,000
Bombay . . .	323,000	338,000	282,000	293,000	681,000
Afloat to Europe .	303,000	304,000	369,000	445,000	383,000
Ports, etc., in Europe	750,000	974,000	1,225,000	2,273,000	1,557,000
Elsewhere ¹ . . .	399,000	625,000	788,000	880,000	642,000
Total . . .	2,684,000	3,059,000	5,412,000	6,725,000	5,100,000
In mills:					
United States . . .	719,000	869,000	1,096,000	1,404,000	1,013,000
Great Britain . . .	214,000	264,000	250,000	261,000	209,000
Continent . . .	817,000	1,134,000	985,000	1,403,000	1,296,000
Elsewhere . . .	1,357,000	1,418,000	1,537,000	1,727,000	1,715,000
Total . . .	3,107,000	3,685,000	3,868,000	4,795,000	4,233,000
Grand total .	5,791,000	6,744,000	9,280,000	11,520,000	9,333,000

¹ Includes cotton afloat to the Orient, in warehouses and in transit in the Orient and in transit in Europe.

Report of the Consumption of Cotton by Domestic Mills for Year ending July 31, 1928

Source: United States Department of Agriculture

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N. A. C. M. YEAR BOOK

GRADE		STAPLE IN INCHES							
		Total		1 ¹ / ₁₆ and Under ¹		7 ⁷ / ₈		1 ³ / ₁₆	
		Bales	Per Cent	Bales	Per Cent	Bales	Per Cent	Bales	Per Cent
Upland (total)	.	6,519,809	100.00 ²	93,842	1.44	1,878,201	28.81	1,782,817	27.34
White (total) ³	.	5,968,345	91.54	72,070	1.11	1,711,701	26.25	1,560,053	23.93
No. 1-M. F.	.	—	—	—	—	—	—	—	—
No. 2-S. G. M.	.	7,157	.11	—	—	1,128	.02	5,436	.08
No. 3-G. M.	.	605,242	9.28	—	—	146,163	2.24	147,173	2.26
No. 4-S. M.	.	2,044,057	31.35	4,107	.06	564,739	8.66	596,015	9.14
No. 5-M.	.	2,061,947	31.62	56,495	.87	757,771	11.62	527,059	8.08
No. 6-S. L. M.	.	657,952	10.10	11,115	.17	132,476	2.03	180,205	2.77
No. 7-L. M.	.	301,166	4.62	—	—	59,467	.91	31,759	.49
No. 8-S. G. O. ¹	.	208,785	3.20	353	.01	8,366	.13	57,483	.88
No. 9-G. O. ¹	.	82,039	1.26	—	—	41,591	.64	14,923	.23
Spotted (total)	.	423,598	6.49	20,791	.31	129,143	1.98	168,766	2.58
No. 3-G. M.	.	38,311	.59	—	—	16,178	.25	17,155	.26
No. 4-S. M.	.	138,532	2.12	8,052	.12	77,445	1.19	52,329	.80
No. 5-M.	.	193,928	2.98	3,357	.05	23,623	.36	72,489	1.11
No. 6-S. L. M. ¹	.	45,366	.69	9,382	.14	11,179	.17	20,050	.31
No. 7-L. M. ¹	.	7,461	.11	—	—	718	.01	6,743	.10
Colored cottons (total) ⁴	.	74,017	1.14	981	.02	26,421	.41	35,841	.55
No grade ¹	.	53,849	.83	—	—	10,936	.17	18,157	.28

¹ Untenderable.

² Percentages computed to the nearest one one-hundredth of one per cent.

³ Extra white cotton reported with white cotton.
⁴ Colored cotton of various grades includes Yellow Tinge, Yellow Stain, Gray, and Blue Stained Cotton.

Report of the Consumption of Cotton by Domestic Mills for Year ending July 31, 1928 — (Continued)

Source: United States Department of Agriculture

STAPLE IN INCHES — CONCLUDED

DESIGNATION	1 and 1 1/32		1 1/16 and 1 3/32		1 1/8 and 1 5/32		1 3/16 and 1 7/32		1 1/2 AND OVER	
	Bales	Per Cent	Bales	Per Cent	Bales	Per Cent	Bales	Per Cent	Bales	Per Cent
Upland (total)	1,854,915	28.45	372,208	5.71	273,404	4.19	251,691	3.86	12,731	.20
White (total) ¹	1,720,264	26.38	371,858	5.70	272,955	4.19	246,713	3.78	12,731	.20
No. 1—M. F.	—	—	—	—	—	—	—	—	—	—
No. 2—S. G. M.	—	—	—	—	—	—	—	—	593	.01
No. 3—G. M.	105,229	1.61	77,619	1.19	65,114	1.00	60,805	.93	3,139	.05
No. 4—S. M.	555,856	8.53	131,688	2.07	113,529	1.74	66,121	1.01	8,999	.14
No. 5—M.	527,925	8.10	107,034	1.64	52,083	.80	33,580	.52	—	—
No. 6—S. L. M.	268,620	4.12	26,703	.41	33,235	.51	5,598	.09	—	—
No. 7—L. M.	193,649	2.97	6,370	.10	8,994	.14	927	.01	—	—
No. 8—S. G. O. ²	62,855	.96	49	—	—	—	79,679	1.22	—	—
No. 9—G. O. ²	6,130	.09	19,395	.30	—	—	—	—	—	—
Spotted (total)	99,239	1.53	350	.01	331	— ³	4,978	.08	—	—
No. 3—G. M.	—	—	—	—	—	—	4,978	.08	—	—
No. 4—S. M.	706	.01	—	—	—	—	—	—	—	—
No. 5—M.	93,778	1.44	350	.01	331	— ³	—	—	—	—
No. 6—S. L. M. ²	10,656	.08	—	—	—	—	—	—	—	—
No. 7—L. M. ²	24,756	—	—	—	—	—	—	—	—	—
Colored cottons (total) ⁴	4,755	.16	—	—	118	— ³	—	—	—	—
No grade ²	—	.38	—	—	—	—	—	—	—	—

¹ Extra white cotton reported with white cotton.

² Untenderable.

³ Less than one one-hundredth of one per cent.
⁴ Colored cotton of various grades includes Yellow Tinge, Yellow Stain, Gray, and Blue Stained Cotton.

Report of the Consumption of Cotton by Domestic Mills for Year ending July 31, 1928 — (Continued)

American-Egyptian Cotton ¹

GRADE			STAPLE IN INCHES							
DESIGNATION	TOTAL		UNDER 1½		1½ AND 1⅞		1⅞ AND 1⅞		1⅞ AND ABOVE	
	Bales	Per Cent	Bales	Per Cent	Bales	Per Cent	Bales	Per Cent	Bales	Per Cent
Total . . .	15,137	100.00	597	3.94	—	—	4,089	27.02	10,451	69.04
No. 1 and 1½	5,018	33.15	597	3.94	—	—	—	—	4,421	29.21
No. 2 and 2½	5,946	39.28	—	—	—	—	4,089	27.02	1,857	12.26
No. 3 and 3½	3,400	22.46	—	—	—	—	—	—	3,400	22.46
No. 4 and 4½	773	5.11	—	—	—	—	—	—	773	5.11
No. 5 . . .	—	—	—	—	—	—	—	—	—	—
Below No. 5	—	—	—	—	—	—	—	—	—	—

¹ Untenderable.

Summary of Staple Lengths of Upland Cotton Consumed

STAPLE IN INCHES							Bales	Per Cent
Total							6,519,809	100.00
13/16 and under							93,842	1.44
7/8							1,878,201	28.81
15/16							1,782,817	27.34
1 and 1⅓							1,854,915	28.45
1⅓ and 1⅓							372,208	5.71
1⅓ and 1⅓							273,404	4.19
1⅓ and 1⅓							251,691	3.86
1⅓ and over							12,731	.20

Estimated Number of Bales Tenderable and Untenderable on Section 5 Contracts

	Bales	Per Cent
Total	6,519,809	100.00
Total tenderable	5,871,324	90.05
Tenderable 7/8" to 1⅓", inclusive	3,314,768	50.84
Tenderable over 1⅓"	2,556,556	39.21
Total untenderable	648,485	9.95

Report of the Consumption of Cotton by Domestic Mills for Year ending July 31, 1928 — (Concluded)
Foreign Cotton ¹

GROWTH			STAPLE IN INCHES													
DESIGNATION	TOTAL		1/2 AND 5/8		11/32 AND 15/32		13/16 AND 17/32		11/4 AND 111/32		13/8 AND 115/32		11/2 AND 119/32		13/4 AND ABOVE	
	Bales	Per Cent	Bales	Per Cent	Bales	Per Cent	Bales	Per Cent	Bales	Per Cent	Bales	Per Cent	Bales	Per Cent	Bales	Per Cent
Total	299,117	100.00 ²	65,427	21.87	165,868	55.45	18,065	6.04	13,320	4.45	27,697	9.27	8,126	2.72	614	.20
Egyptian	217,584	72.74	—	—	163,085	54.52	7,427	2.48	13,320	4.45	27,697	9.27	5,653	1.89	402	.13
Other	81,533	27.26	65,427	21.87	2,783	.93	10,638	3.56	—	—	—	—	2,473	.83	212	.07

¹ Untenderable.

² Percentages computed to the nearest one one-hundredth of one per cent.

Supply and Distribution of Cotton in the United States for the Twelve Months ending July 31, 1928

[Quantities are given in running bales, except that round bales are counted as half bales and foreign cotton and domestic cotton, reimported, in equivalent 500-pound bales. Linters are not included]

Source: United States Bureau of the Census

	SUPPLY	Bales
On hand August 1, 1927, total		3,762,367
In consuming establishments, total	1,404,815	
In cotton-growing States	882,427	
In all other States	522,388	
In public storage and at compresses	1,822,552	
In cotton-growing States	1,498,453	
In all other States	324,099	
Elsewhere (partially estimated) ¹	535,000	
Imports foreign cotton, total	338,226	
Re-exported	17,560	
Net imports		320,666
Ginnings, crop of 1927, total	12,783,112	
Prior to August 1, 1927	162,283	
During cotton year 1927-28		12,620,829
Ginnings, crop of 1928 prior to August 1		88,761
Aggregate supply		16,792,623
	DISTRIBUTION	
Exports domestic cotton, total	7,539,945	
Reimported	10,610	
Net exports		7,529,335
Consumed, total		6,834,063
In cotton-growing States	5,113,842	
In all other States	1,720,221	
Destroyed		20,000
On hand July 31, 1928, total		2,536,472
In consuming establishments, total	1,011,721	
In cotton-growing States	618,760	
In all other States	392,961	
In public storage and at compresses	1,189,751	
In cotton-growing States	1,036,369	
In all other States	153,382	
Elsewhere (partially estimated) ¹	335,000	
Aggregate distribution		16,919,870
Excess of distribution over supply ²		127,247

¹ Includes cotton for export on shipboard but not cleared; cotton coastwise; cotton in transit to ports, interior towns, and mills; cotton on farms, etc.

² Due principally to the inclusion in all distribution items of the "city crop," which consists of rebaled samples and pickings from cotton damaged by fire and weather.

Quantity of the Several Kinds of Raw Cotton consumed and of Stocks held in Consuming Establishments, 1925 to 1928

[Quantities are given in running bales, except that round bales are counted as half bales and foreign cotton in equivalent 500-pound bales. Linters are not included]

United States Bureau of the Census

KIND AND LOCALITY	RAW COTTON CONSUMED DURING YEAR ENDING JULY 31 (BALES)				STOCKS HELD IN CONSUMING ESTABLISHMENTS JULY 31 (BALES)			
	1925	1926	1927	1928	1925	1926	1927	1928
United States . . .	6,193,417	6,455,852	7,189,585	6,834,063	865,842	1,006,647	1,404,815	1,011,721
Domestic:								
Upland	5,894,497	6,161,710	6,859,229	6,518,558	781,080	1,002,523	1,319,284	930,111
Sea-island	3,970	2,325	1,226	1,251	2,702	1,462	1,694	946
American-Egyptian .	19,018	11,740	19,669	15,137	2,849	6,387	4,237	3,506
Foreign:								
Egyptian	191,544	204,113	239,768	217,584	50,529	64,203	58,882	47,849
Peruvian	19,561	19,841	14,535	15,273	2,587	2,961	3,765	2,323
Chinese	40,185	31,378	32,043	43,972	16,258	10,434	12,435	21,927
British Indian . . .	24,573	23,736	21,985	21,455	9,832	8,088	3,445	4,674
Other	69	1,009	1,130	833	5	589	1,073	295
Cotton-growing States .	4,220,010	4,500,243	5,193,500	5,113,842	428,647	624,345	882,427	618,760
Domestic:								
Upland	4,186,092	4,470,274	5,129,978	5,033,710	424,027	617,273	872,080	603,431
Sea-island	92	134	162	89	28	70	169	116
American-Egyptian .	5,477	1,406	1,834	1,143	207	597	257	375
Foreign:								
Egyptian	19,472	16,584	42,911	51,921	1,582	3,667	5,206	4,121
Peruvian	—	1,701	2,019	1,860	—	409	100	241
Chinese	6,437	6,741	10,464	19,329	2,132	1,349	3,733	8,712
British Indian . . .	2,390	3,227	6,088	5,790	671	931	882	1,764
Other	50	176	44	—	—	49	—	—
All other States . . .	1,973,407	1,955,609	1,996,085	1,720,221	437,195	472,302	522,388	392,961
Domestic:								
Upland	1,708,405	1,691,436	1,729,251	1,484,848	357,053	385,250	447,204	326,680
Sea-island	3,878	2,191	1,064	1,162	2,674	1,392	1,525	830
American-Egyptian .	13,541	10,334	17,835	13,994	2,642	5,790	3,980	3,221
Foreign:								
Egyptian	172,072	187,529	196,857	165,663	48,947	60,536	53,676	43,728
Peruvian	19,561	18,110	12,516	13,413	2,587	2,552	3,665	2,082
Chinese	33,748	24,637	21,579	24,643	14,126	9,085	8,702	13,215
British Indian . . .	22,183	20,509	15,897	15,665	9,161	7,157	2,563	2,910
Other	19	833	1,086	833	5	540	1,073	295

World Supply and Consumption of American Cotton

The tables below, compiled by Henry G. Hester, Secretary of the New Orleans Cotton Exchange, show the world supply and consumption of American cotton, inclusive of linters, season by season since 1914-15. In considering these statistics it should be borne in mind that they relate only to American cotton. They do not include Egyptian, Indian or other foreign growths. The figures of supply at the beginning of each season include mill stocks in the United States and Europe, stocks at counted and uncounted interior towns and on plantations in this country, and stocks at ports in this country and Europe. The statistics on consumption include consumption in this country and abroad. These statistics are in running bales.

Supply and Consumption, including Linters

COTTON SEASON, AUG. 1 TO JULY 31	Supply at Beginning of Season	Crop	Total Supply for Season	Consumption
1915-16	7,701,000	12,175,000	19,876,000	14,812,000
1916-17	5,105,000	12,966,000	18,071,000	13,892,000
1917-18	4,305,000	12,424,000	16,729,000	12,282,000
1918-19	4,422,000	13,070,000	17,492,000	10,535,000
1919-20	6,909,000	12,000,000	18,909,000	12,670,000
1920-21	6,216,000	13,750,000	19,966,000	10,330,000
1921-22	9,364,000	8,442,000	17,806,000	12,829,000
1922-23	4,879,000	10,424,000	15,303,000	12,631,000
1923-24	2,573,000	10,985,000	13,558,000	11,241,000
1924-25	2,319,000	14,808,000	17,127,000	14,136,000
1925-26	3,268,000 ¹	17,541,000	20,809,000	15,170,000
1926-27	5,639,000	19,215,000	24,854,000	17,616,000
1927-28	7,298,000 ²	13,906,000	21,204,000	15,906,000
1928-29	5,298,000	—	—	—

¹ Includes stocks at Japan and 10,000 bales at European mills, 1926.

² 60,000 bales additional European mill stocks.

Stocks of American Cotton at United States Ports July 31

Source: New Orleans Cotton Exchange

	1924	1925	1926	1927	1928
Galveston	41,954	51,572	149,926	146,029	83,586
Houston	—	—	226,636	179,825	163,659
New Orleans	50,702	49,275	152,265	259,603	149,961
Mobile	557	1,303	3,389	4,109	3,635
Savannah	8,390	7,572	27,073	43,983	17,362
Charleston	11,933	7,319	12,698	20,878	16,211
Wilmington	1,828	7,082	7,095	4,336	11,874
Norfolk	16,000	20,000	40,000	32,000	28,200
Baltimore	500	500	500	500	500
New York	80,759	61,613	56,883	213,071	58,642
Philadelphia	3,363	3,455	4,224	5,159	4,432
Boston	4,569	1,431	4,252	2,289	3,300
Pacific ports	1,046	378	—	4,501	1,912
Pensacola	116	157	508	431	71
Los Angeles	—	—	—	—	4,286
Jacksonville	1,679	8	371	585	613
Texas City	—	1	3,141	6,121	3,150
Total	223,396	211,666	688,961	923,420	551,394

Consumption of Cotton, per Thousand Spindles, by Countries

[In running bales for cotton years]

Source: International Federation of Master Cotton Spinners' and Manufacturers' Associations

COUNTRIES	1922-23	1923-24	1924-25	1925-26	1926-27	1927-28
World	141.2	128.0	144.3	151.0	157.2	155.0
Great Britain	48.9	47.8	56.6	53.2	51.6	50.8
France	126.0	113.5	119.0	124.3	123.8	121.7
Germany	111.9	81.9	127.4	110.4	136.2	142.8
Italy	195.9	206.1	210.0	216.4	185.9	185.4
Czechoslovakia	71.2	120.5	139.4	134.5	139.4	149.7
Spain	194.0	201.8	194.1	166.3	207.1	218.9
Belgium	161.9	170.0	170.5	191.7	193.4	209.5
Switzerland	48.7	66.6	71.1	74.5	71.0	75.3
Poland	189.6	162.5	178.3	147.0	229.1	229.8
Holland	165.5	81.6	166.4	147.8	162.3	167.9
Sweden	148.0	151.4	149.6	161.0	156.2	179.7
Portugal	177.1	180.9	149.1	168.9	143.1	173.0
Finland	133.6	119.5	110.6	154.1	150.1	165.2
Denmark	296.0	262.5	236.7	223.4	218.7	221.0
Norway	112.6	90.9	172.6	109.0	100.0	142.8
India	307.0	260.4	287.0	242.5	298.2	233.8
Japan	535.0	484.3	464.6	511.2	455.8	410.3
United States	177.4	148.5	161.6	176.5	192.5	188.2
Canada	163.9	130.2	122.0	180.4	174.3	171.6
Mexico	177.4	185.7	237.1	268.1	220.0	225.1
Brazil	328.6	222.9	273.3	322.6	172.6	211.6

Calculated Total World's Cotton Mill Consumption for the Half son, on Basis of Spinners' Returns made

	COUNTRIES	IN THOUSANDS OF ACTUAL BALES (REGARDLESS OF WEIGHT)							
		AMERICAN				EAST INDIAN			
		HALF YEAR ENDING				HALF YEAR ENDING			
		July 31, 1926	July 31, 1927	Jan. 31, 1928	July 31, 1928	July 31, 1926	July 31, 1927	Jan. 31, 1928	July 31, 1928
	Europe:								
1	Great Britain	937	1,137	1,027	922	73	34	47	74
2	Germany	405	649	677	599	72	78	95	117
3	France	424	406	407	422	93	68	78	102
4	Russia	59	123	376	117	1	—	—	—
5	Italy	357	338	342	365	120	78	81	98
6	Czechoslovakia	158	236	237	197	38	34	39	39
7	Belgium	92	116	113	102	71	54	64	83
8	Spain	144	151	151	163	41	26	34	30
9	Poland	89	125	173	145	10	13	12	12
10	Switzerland	31	27	28	29	5	3	3	4
11	Holland	60	70	74	73	14	12	16	18
12	Austria	49	66	64	58	18	13	18	16
13	Sweden	44	46	52	53	1	1	—	1
14	Portugal	33	26	34	22	—	—	2	—
15	Finland	21	18	21	20	—	—	—	—
16	Denmark	9	10	11	10	—	—	—	—
17	Norway	3	3	4	4	—	—	—	—
18	Europe total	2,915	3,547	3,791	3,301	557	414	489	594
	Asia:								
19	India	8	290	117	21	1,086	1,018	1,000	840
20	Japan	499	619	572	506	889	716	676	565
21	China	74	161	151	146	222	201	108	200
22	Asia total	581	1,070	840	673	2,197	1,935	1,784	1,605
	America:								
23	United States	3,132	3,597	3,465	3,070	12	15	15	12
24	Canada	94	105	94	101	—	—	—	—
25	Mexico	4	—	—	—	—	—	—	—
26	Brazil	—	—	—	—	—	—	—	—
27	America total	3,230	3,702	3,559	3,171	12	15	15	12
28	Sundries	30	38	36	36	21	14	15	9
29	Half year totals . . .	6,756	8,357	8,226	7,181	2,787	2,378	2,303	2,220

Year ending 31st July, 1928, with Previous Figures for Comparison to the International Cotton Federation

IN THOUSANDS OF ACTUAL BALES (REGARDLESS OF WEIGHT)											
EGYPTIAN				SUNDRIES				TOTAL			
HALF YEAR ENDING				HALF YEAR ENDING				HALF YEAR ENDING			
July 31, 1926	July 31, 1927	Jan. 31, 1928	July 31, 1928	July 31, 1926	July 31, 1927	Jan. 31, 1928	July 31, 1928	July 31, 1926	July 31, 1927	Jan. 31, 1928	July 31, 1928
200	183	172	186	166	240	275	201	1,376	1,594	1,521	1,383
19	36	34	29	5	13	18	16	501	776	824	761
56	49	49	46	39	34	41	35	612	557	575	605
24	31	37	34	821	762	466	834	905	916	879	985
28	24	24	24	11	8	8	12	516	448	455	499
10	14	16	12	1	2	2	4	207	286	294	252
2	2	2	2	12	12	21	37	177	184	200	224
12	12	11	10	7	11	9	5	204	200	205	208
3	6	7	3	3	1	3	5	105	145	195	165
18	25	24	24	1	1	3	1	55	56	58	58
-	-	-	-	2	1	1	1	76	83	91	92
1	2	2	2	2	1	1	3	70	82	85	79
-	-	1	-	-	1	2	1	45	48	55	55
-	-	-	1	11	4	16	12	44	30	52	35
-	-	-	-	-	-	-	-	21	18	21	20
-	-	-	-	-	1	-	-	9	11	11	10
-	-	-	-	-	-	-	-	3	3	4	4
373	384	379	373	1,081	1,092	866	1,167	4,926	5,437	5,525	5,435
5	1	2	1	23	30	29	24	1,122	1,339	1,148	886
19	23	19	20	65	50	55	128	1,472	1,408	1,322	1,219
-	-	1	-	549	558	509	901	845	920	769	1,247
24	24	22	21	637	638	593	1,053	3,439	3,667	3,239	3,352
71	85	80	64	29	35	30	34	3,244	3,732	3,590	3,180
3	5	1	2	-	-	-	-	97	110	95	103
-	-	-	1	103	81	102	86	107	81	102	87
-	-	-	-	420	255	295	257	420	255	295	257
74	90	81	67	552	371	427	377	3,868	4,178	4,082	3,627
6	8	7	6	53	70	83	88	110	130	141	139
477	506	489	467	2,323	2,171	1,969	2,685	12,343	13,412	12,987	12,553

Calculated Total World's Cotton Mill Stocks on July 31, 1928, with to the International

		IN THOUSANDS OF ACTUAL BALES (REGARDLESS OF WEIGHT)							
COUNTRIES		AMERICAN				EAST INDIAN			
		HALF YEAR ENDING				HALF YEAR ENDING			
		July 31, 1926	July 31, 1927	Jan. 31, 1928	July 31, 1928	July 31, 1926	July 31, 1927	Jan. 31, 1928	July 31, 1928
1	Europe:								
2	Great Britain	120	122	99	79	32	17	11	28
3	Germany	100	220	185	135	26	31	31	44
4	France	124	148	153	144	49	41	32	69
5	Russia	19	161	16	52	—	—	—	—
6	Italy	124	148	129	143	61	33	33	51
7	Czechoslovakia	41	64	61	50	13	9	11	13
8	Belgium	31	55	43	43	34	24	29	45
9	Spain	18	29	32	29	7	6	5	8
10	Poland	8	21	19	23	2	4	3	7
11	Switzerland	13	21	21	16	4	3	2	4
12	Holland	19	33	34	29	7	7	5	14
13	Austria	13	18	16	15	7	4	4	6
14	Sweden	19	25	21	21	—	—	—	1
15	Portugal	4	6	6	4	—	—	—	—
16	Finland	6	5	5	5	—	—	—	—
17	Denmark	3	3	4	3	—	—	—	—
18	Norway	1	1	1	1	—	—	—	—
18	Europe total	663	1,080	845	792	242	179	166	290
19	Asia:								
20	India	8	117	23	63	607	684	531	864
21	Japan	207	387	260	206	555	568	233	426
22	China	35	68	48	58	167	77	25	139
22	Asia total	250	572	331	327	1,329	1,329	789	1,429
23	America:								
24	United States	1,010	1,325	1,624	931	10	4	6	5
25	Canada	36	69	54	53	—	—	—	—
26	Mexico	2	—	—	—	—	—	—	—
27	Brazil	—	—	—	—	—	—	—	—
27	America total	1,048	1,394	1,678	984	10	4	6	5
28	Sundries	8	10	13	9	8	3	8	4
29	Grand totals	1,969	3,056	2,867	2,112	1,589	1,515	969	1,728

Previous Figures for Comparison on Basis of Spinners' Returns made Cotton Federation

IN THOUSANDS OF ACTUAL BALES (REGARDLESS OF WEIGHT)											
EGYPTIAN				SUNDRIES				TOTAL			
HALF YEAR ENDING				HALF YEAR ENDING				HALF YEAR ENDING			
July 31, 1926	July 31, 1927	Jan. 31, 1928	July 31, 1928	July 31, 1926	July 31, 1927	Jan. 31, 1928	July 31, 1928	July 31, 1926	July 31, 1927	Jan. 31, 1928	July 31, 1928
45	44	36	43	45	74	69	58	242	257	215	204
7	16	15	13	2	6	6	4	135	273	237	200
26	22	18	19	24	19	21	22	223	230	224	254
8	16	10	11	257	163	287	230	284	340	313	293
15	11	9	9	4	2	5	4	204	194	176	207
4	4	4	4	1	1	1	1	59	78	77	68
1	2	1	1	2	3	13	11	68	84	86	100
4	5	5	4	1	2	2	3	30	42	44	44
2	1	1	1	—	1	1	1	12	27	24	32
11	17	17	10	—	2	2	2	28	43	42	32
—	—	—	—	1	2	1	1	27	42	40	44
1	1	—	1	—	—	1	—	21	23	21	22
—	—	—	—	—	1	1	1	19	26	22	23
—	—	—	—	4	2	2	2	8	8	8	6
—	—	—	—	—	—	—	—	6	5	5	5
—	—	—	—	—	—	—	—	3	3	4	3
—	—	—	—	—	—	—	—	1	1	1	1
124	139	116	116	341	278	412	340	1,370	1,676	1,539	1,538
3	2	1	2	12	23	11	35	630	826	566	964
27	24	23	17	30	22	81	46	819	1,001	597	695
—	1	—	—	170	92	183	181	372	238	256	378
30	27	24	19	212	137	275	262	1,821	2,065	1,419	2,037
43	39	39	32	15	19	21	25	1,078	1,387	1,690	993
2	2	1	1	—	—	—	—	38	71	55	54
—	—	1	—	25	62	39	45	27	62	40	45
—	—	—	—	116	99	78	62	116	99	78	62
45	41	41	33	156	180	138	132	1,259	1,619	1,863	1,154
2	3	2	2	30	31	38	43	48	47	61	58
201	210	183	170	739	626	863	777	4,498	5,407	4,882	4,787

World's Visible Supply of Cotton during Past Five Seasons

[In thousands of running bales. Linters included]

Source: New York Cotton Exchange

WEEK ENDING —		1923-24		1924-25		1925-26		1926-27		1927-28	
		All Kinds	American	All Kinds	American	All Kinds	American	All Kinds	American	All Kinds	American
August	5	2,039	850	2,148	939	2,222	1,052	3,511	2,184	4,718	3,274
	12	1,939	799	2,072	910	2,137	992	3,406	2,103	4,600	3,190
	19	1,917	792	1,931	818	2,153	1,005	3,353	2,044	4,504	3,120
	26	1,940	829	1,875	792	2,240	1,137	3,243	1,985	4,418	3,068
September	2	1,978	924	1,881	835	2,434	1,371	3,223	2,004	4,482	3,190
	9	2,013	1,031	1,963	948	2,686	1,646	3,252	2,082	4,537	3,308
	16	2,134	1,189	2,108	1,134	3,017	1,977	3,457	2,333	4,778	3,534
	23	2,337	1,429	2,362	1,423	3,449	2,399	3,812	2,694	4,994	3,777
October	30	2,550	1,651	2,688	1,737	3,894	2,844	4,374	3,202	5,372	4,140
	7	2,774	1,913	2,932	2,023	4,209	3,218	4,921	3,766	5,689	4,498
	14	2,964	2,139	3,222	2,363	4,589	3,587	5,397	4,243	5,963	4,768
	21	3,222	2,392	3,609	2,744	4,910	3,893	5,810	4,710	6,199	5,040
November	28	3,401	2,601	3,907	3,062	5,250	4,184	6,206	5,113	6,488	5,338
	4	3,617	2,791	4,284	3,419	5,511	4,413	6,618	5,511	6,786	5,615
	11	3,924	2,926	4,582	3,736	5,729	4,615	6,947	5,856	6,970	5,823
	18	4,064	3,054	4,835	4,022	5,904	4,780	7,321	6,214	7,150	5,991
December	25	4,199	3,161	5,082	4,232	6,117	4,974	7,581	6,484	7,244	6,066
	2	4,353	3,293	5,312	4,463	6,393	5,179	7,854	6,749	7,358	6,119
	9	4,436	3,350	5,541	4,667	6,581	5,288	8,137	6,974	7,436	6,158
	16	4,522	3,398	5,681	4,741	6,750	5,411	8,317	7,143	7,492	6,133
January	23	4,646	3,405	5,901	4,877	6,873	5,485	8,494	7,235	7,507	6,092
	30	4,785	3,435	5,966	4,938	6,935	5,523	8,608	7,332	7,555	6,086
	6	4,853	3,396	6,084	5,022	7,017	5,468	8,690	7,328	7,487	5,991
	13	4,891	3,341	6,148	4,979	6,933	5,378	8,796	7,365	7,387	5,856
February	20	4,871	3,281	6,115	4,927	6,862	5,332	8,895	7,390	7,344	5,749
	27	4,910	3,239	6,139	4,885	6,738	5,230	8,920	7,341	7,295	5,620
	3	4,782	3,128	6,025	4,785	6,701	5,139	8,857	7,235	7,215	5,516
	10	4,674	3,057	5,908	4,654	6,650	5,084	8,808	7,091	7,098	5,399
March	17	4,694	2,983	5,911	4,607	6,656	5,003	8,741	6,977	7,054	5,323
	24	4,696	2,887	5,836	4,478	6,584	4,909	8,649	6,929	6,877	5,201
	2	4,690	2,790	5,872	4,391	6,493	4,776	8,495	6,819	6,753	5,058
	9	4,617	2,694	5,748	4,281	6,374	4,649	8,302	6,719	6,650	4,921
April	16	4,408	2,551	5,731	4,155	6,244	4,523	8,260	6,597	6,518	4,815
	23	4,316	2,487	5,603	3,992	6,104	4,430	8,121	6,473	6,383	4,679
	30	4,192	2,395	5,434	3,811	6,013	4,335	7,987	6,368	6,334	4,617
	6	4,059	2,281	5,182	3,592	5,898	4,217	7,849	6,241	6,292	4,521
May	13	3,923	2,172	5,119	3,440	5,794	4,126	7,760	6,095	6,229	4,409
	20	3,717	2,079	4,982	3,302	5,621	4,003	7,637	6,006	6,156	4,270
	27	3,631	1,964	4,907	3,184	5,538	3,862	7,452	5,811	6,113	4,163
	4	3,546	1,882	4,669	2,982	5,436	3,780	7,227	5,597	6,009	4,050
June	11	3,432	1,776	4,545	2,825	5,384	3,713	7,046	5,395	5,999	3,944
	18	3,300	1,655	4,273	2,620	5,194	3,542	6,921	5,216	5,915	3,843
	25	3,158	1,572	4,169	2,441	5,064	3,448	6,744	5,048	5,779	3,731
	1	3,054	1,505	4,003	2,304	4,890	3,307	6,565	4,867	5,585	3,590
July	8	2,929	1,418	3,851	2,171	4,754	3,180	6,399	4,722	5,450	3,453
	15	2,913	1,405	3,651	2,024	4,654	3,076	6,202	4,497	5,299	3,257
	22	2,818	1,354	3,425	1,877	4,548	2,959	5,940	4,258	5,090	3,074
	29	2,694	1,288	3,151	1,757	4,377	2,823	5,681	4,068	4,868	2,921
August	6	2,579	1,200	2,966	1,638	4,213	2,727	5,512	3,862	4,734	2,792
	13	2,444	1,113	2,783	1,489	4,058	2,594	5,346	3,741	4,567	2,623
	20	2,370	1,064	2,663	1,390	3,914	2,464	5,214	3,609	4,357	2,467
	27	2,270	998	2,514	1,283	3,703	2,300	4,932	3,416	4,187	2,315
	31	2,161	952	2,288	1,125	3,669	2,279	4,895	3,379	4,088	2,256

United States Consumption of Cotton and Linters

[American cotton and linters in running bales. Foreign cotton in equivalent 500-pound bales]

Source: United States Bureau of the Census

SEASON ENDING —	Total Cotton (including Linters)	Total Cotton (excluding Linters)	American Cotton (excluding Linters)	Linters	Foreign Cotton	Egyptian	Sea Island ¹	American Egyptian
August 31, 1913	5,786,330	5,483,321	5,250,392	303,009	232,929	201,269	54,778	Not available
August 31, 1914	5,884,733	5,577,408	5,383,099	307,325	194,309	151,091	81,673	
July 31, 1915	6,009,207	5,597,362	5,375,305	411,845	222,057	181,211	79,394	
July 31, 1916	7,278,529	6,397,613	6,080,618	880,916	316,995	269,324	82,645	
July 31, 1917	7,658,207	6,788,505	6,470,244	869,702	318,261	259,160	94,291	
July 31, 1918	7,685,329	6,566,489	6,382,695	1,118,840	183,794	136,401	85,939	
July 31, 1919	6,223,837	5,765,936	5,589,820	457,901	176,116	126,087	51,183	
July 31, 1920	6,762,207	6,419,734	6,002,993	342,473	416,741	323,124	42,971	45,867
July 31, 1921	5,408,979	4,892,672	4,676,891	516,307	215,781	159,196	18,667	16,771
July 31, 1922	6,548,853	5,999,820	5,612,993	639,033	296,827	226,330	8,967	49,359
July 31, 1923	7,312,201	6,606,092	6,322,294	646,109	343,798	262,331	6,267	65,235
July 31, 1924	6,217,292	5,680,554	5,352,937	536,738	327,617	223,649	4,906	35,998
July 31, 1925	6,852,265	6,193,417	5,917,485	658,848	275,932	191,544	3,970	19,018
July 31, 1926	7,259,618	6,455,852	6,175,775	803,766	280,077	204,113	2,325	11,740
July 31, 1927	7,995,668	7,189,585	6,880,124	806,083	309,461	239,768	1,226	19,669
July 31, 1928	7,590,089	6,832,689	6,535,275	757,400	297,414	26,758	—	16,387
By Months, 1927-28 —								
August, 1927	707,421	633,434	604,286	73,987	29,148	22,446	—	1,288
September, 1927	705,581	627,321	600,577	78,260	26,744	19,639	—	1,301
October, 1927	686,128	612,935	586,717	73,193	26,218	19,345	—	1,526
November, 1927	687,721	625,680	599,007	62,041	26,673	20,456	—	1,335
December, 1927	595,442	543,598	519,004	51,844	24,594	18,584	—	1,512
January, 1928	636,888	582,417	555,906	54,471	26,511	20,064	—	1,638
February, 1928	629,963	573,810	546,536	56,153	27,274	20,435	—	1,429
March, 1928	642,728	581,318	557,368	61,410	23,950	17,018	—	1,468
April, 1928	582,671	525,158	502,265	57,513	22,893	16,448	—	1,154
May, 1928	639,730	577,710	555,023	62,020	22,687	14,923	—	1,240
June, 1928	574,152	510,565	489,848	63,587	20,717	13,949	—	1,169
July, 1928	501,661	438,743	418,738	62,921	20,005	13,451	—	1,327

¹ Sea Island not reported monthly.

United States Cotton Consumption, by States ¹

[In running bales, exclusive of linters]

Source: United States Bureau of the Census

	1922-23	1923-24	1924-25	1925-26	1926-27	1927-28
New England States:						
Maine . . .	182,184	148,836	146,379	136,318	135,994	122,070
New Hampshire . . .	235,377	191,816	205,326	224,981	231,844	206,936
Vermont . . .	12,087	9,550	10,129	7,952	10,436	9,906
Massachusetts . . .	1,231,300	869,695	950,942	945,790	972,820	789,975
Rhode Island . . .	264,132	217,971	230,035	220,332	219,227	203,621
Connecticut . . .	124,500	96,909	95,963	92,624	104,451	105,923
Total New England States . . .	2,049,580	1,534,777	1,636,774	1,627,997	1,674,772	1,438,431
Other non-cotton-growing States:						
New York . . .	201,270	144,017	164,610	163,905	162,477	140,326
New Jersey . . .	41,866	39,088	62,132	47,826	35,772	35,041
Pennsylvania . . .	30,876	30,892	30,687	30,054	26,508	23,977
Maryland . . .	44,799	31,833	37,150	42,998	45,619	37,830
Indiana . . .	15,683	15,711	15,157	17,419	19,444	17,624
Illinois . . .	12,451	13,165	11,783	11,326	12,390	12,412
Others . . .	21,619	12,754	10,762	14,084	19,103	14,580
Total other non-cotton-growing States	368,764	287,460	332,281	327,612	321,313	281,790
Cotton-growing States:						
Virginia . . .	121,272	105,775	110,883	121,243	129,783	120,024
North Carolina . . .	1,326,174	1,199,859	1,334,794	1,394,124	1,639,726	1,583,829
South Carolina . . .	1,035,557	947,964	1,029,797	1,078,146	1,245,482	1,228,642
Georgia . . .	974,662	864,328	966,324	1,012,980	1,152,855	1,168,431
Alabama . . .	414,880	392,705	430,051	494,283	570,409	552,020
Mississippi . . .	46,117	34,751	32,201	33,402	36,450	41,627
Tennessee . . .	123,052	120,053	115,202	130,619	150,914	158,387
Kentucky . . .	23,915	22,362	21,284	23,088	25,562	24,083
Louisiana . . .	45,135	35,097	33,566	34,633	39,184	44,898
Texas . . .	83,221	79,627	93,494	118,071	139,273	130,042
Others . . .	53,763	55,796	56,766	59,654	63,862	61,859
Total cotton-growing States . . .	4,247,748	3,858,317	4,224,362	4,500,243	5,193,500	5,113,842
Total United States	6,666,092	5,680,554	6,193,417	6,455,852	7,189,585	6,834,063

¹ Statistics here given are for years ending July 31.

United States Cotton Production, Consumption, and Active Cotton Spindles

[Running bales, except those for production in 1850, 1860, and 1870, which are in equivalent 400-pound bales, and those for consumption from 1840 to 1870, and for foreign cotton, which are in equivalent 500-pound bales. Linters are not included except for quantities consumed in 1909 and years prior thereto]

Source: United States Bureau of the Census

COTTON YEAR ENDING JULY 31	Cotton produced (Bales) ¹	COTTON CONSUMED (BALES)				ACTIVE COTTON SPINDLES			
		United States	Cotton-growing States	New England States	All Other States	United States	Cotton-growing States	New England States	All Other States
1840	2,063,915	236,525	71,000	158,708	6,817	2,284,631	180,927	1,597,394	506,310
1850	2,469,093	575,506	78,140	430,603	66,763	3,998,022	261,571	2,958,536	774,915
1860	5,387,052	845,410	93,553	567,403	184,454	5,235,727	324,052	3,858,962	1,052,713
1870	3,011,996	796,616	68,702	551,250	176,664	7,132,415	327,871	5,498,308	1,306,236
1880	5,755,359	1,570,344 ²	188,748 ²	1,129,498 ²	252,098 ²	10,653,435 ²	561,360	8,632,087 ²	1,459,988 ²
1890	7,472,511	2,518,409	538,895	1,502,177	477,337	14,384,180	1,570,288	10,934,297	1,879,595
1900	9,393,242	3,873,165	1,523,168	1,909,498	440,499	19,472,232	4,367,688	13,171,377	1,933,167
1905	13,451,337	4,278,980	2,140,151 ³	1,753,282 ³	385,547 ³	23,687,495	7,631,331	14,202,971	1,853,193
1906	10,495,105	4,909,279	2,373,577	2,059,900	475,802	25,250,096	8,994,868	14,407,580	1,847,648
1907	12,983,201	4,984,936	2,410,993	2,073,355	500,588	26,375,191	9,527,964	14,912,517	1,934,710
1908	11,057,822	4,539,090	2,187,096	1,894,835	457,159	27,505,422	10,200,903	15,329,333	1,975,186
1909	13,086,005	5,240,719	2,553,797	2,144,448	542,474	28,018,305	10,429,200	15,591,851	1,997,254
1910	10,072,731	4,621,742	2,233,506	1,995,456	392,780	28,266,862	10,494,112	15,735,086	2,037,664
1911	11,568,334	4,498,417	2,249,135	1,882,060	367,222	29,522,597	11,084,623	16,510,981	1,926,993
1912	15,553,073	5,129,346	2,635,878	2,076,405	417,063	30,578,528	11,582,869	17,139,945	1,855,714
1913	13,488,539	5,483,321	2,861,743	2,178,237	443,341	31,519,766	12,227,226	17,311,451	1,981,089
1914	13,982,811	5,577,408	2,925,294	2,219,197	432,917	32,107,572	12,711,303	17,408,372	1,987,897
1915	15,905,840	5,597,362	3,026,969	2,149,398	420,995	31,964,235	12,955,712	17,100,615	1,907,908
1916	11,068,173	6,397,613	3,527,528	2,388,726	481,359	32,805,883	13,382,065	17,474,264	1,949,554
1917	11,363,915	6,788,505	3,888,348	2,414,372	455,785	33,888,835	14,155,758	17,760,968	1,972,109
1918	11,248,242	6,566,489	3,697,098	2,402,520	466,871	34,542,665	14,529,063	17,984,720	2,028,882
1919	11,906,480	5,765,936	3,199,027	2,165,031	401,878	34,930,934	14,846,239	18,065,857	2,018,838
1920	11,325,532	6,419,734	3,582,919	2,397,126	439,689	35,480,953	15,230,983	18,287,424	1,962,546
1921	13,270,970	4,892,672	2,997,471	1,613,597	281,604	36,047,367	15,708,988	18,387,789	1,950,590
1922	7,977,778	5,909,820	3,729,777	1,822,681	357,362	35,707,738	15,906,165	17,938,805	1,862,768
1923	9,729,306	6,666,092	4,247,748	2,049,580	368,764	36,260,001	16,310,360	18,053,716	1,895,925
1924	10,170,694	5,680,554	3,858,317	1,534,777	287,460	35,849,338	16,944,178	17,066,036	1,839,124
1925	13,639,399	6,193,417	4,220,010	1,638,774	334,633	35,032,246	17,292,042	15,975,442	1,764,762
1926	16,122,516	6,455,852	4,500,243	1,627,997	327,612	34,750,266	17,574,450	15,525,672	1,650,144
1927	17,755,070	7,189,585	5,193,500	1,674,772	321,313	34,409,910	17,893,908	14,995,460	1,520,542
1928	12,783,112	6,834,063	5,113,842	1,438,431	281,790	33,569,792	18,281,754	13,815,242	1,472,796

¹ Relates to crop of preceding year.

² Cotton mills only.

³ Does not include foreign cotton.

Exports of Cotton from Alexandria, Egypt

[In cantars of 99.049 pounds each]

Source: Alexandria General Produce Association

WEEK		1925-26		1926-27		1927-28	
		Week	Since Sept. 1	Week	Since Sept. 1	Week	Since Sept. 1
September	1	57,210	10,357	125,331	300	159,160	—
	7	42,081	52,438	54,906	55,206	44,133	44,133
	15	47,552	99,990	48,252	103,458	58,415	102,548
	22	89,452	189,442	67,352	170,810	104,277	206,825
	29	61,199	250,641	62,215	233,025	90,063	296,888
October	5	111,042	361,683	99,643	332,668	65,193	362,081
	13	209,651	571,334	52,607	385,275	218,816	580,897
	20	150,341	721,675	200,468	585,743	172,402	753,299
	27	267,950	989,625	210,834	796,577	137,785	891,084
November	3	189,286	1,178,911	177,009	973,586	86,556	977,640
	10	312,432	1,491,343	189,627	1,163,213	205,157	1,182,797
	17	233,814	1,725,157	163,120	1,326,333	184,323	1,367,120
	24	209,575	1,934,732	233,337	1,559,670	147,193	1,514,313
December	1	246,540	2,181,272	231,358	1,791,028	224,061	1,738,874
	8	243,472	2,424,744	220,173	2,011,201	139,280	1,877,654
	15	202,392	2,627,136	240,714	2,251,915	203,815	2,081,469
	22	247,905	2,875,041	150,366	2,402,281	181,955	2,263,424
	29	158,820	3,033,861	214,017	2,616,298	109,168	2,372,592
January	5	95,869	3,129,730	127,099	2,743,397	88,649	2,461,241
	12	88,954	3,218,684	124,641	2,868,038	118,469	2,579,710
	19	320,208	3,538,892	152,381	3,020,419	201,967	2,781,677
	26	181,360	3,720,252	165,372	3,185,791	149,864	2,931,541
February	2	192,787	3,913,039	225,648	3,411,439	162,009	3,093,550
	9	249,678	4,162,717	162,264	3,573,703	158,424	3,251,974
	16	173,286	4,336,003	200,520	3,774,223	140,950	3,392,924
	23	136,508	4,472,511	119,819	3,894,042	120,557	3,513,481
March	1	135,522	4,608,033	266,619	4,160,661	145,367	3,658,848
	8	136,115	4,744,148	108,352	4,269,013	160,975	3,819,823
	14	110,306	4,854,454	145,329	4,414,342	129,109	3,948,932
	22	151,616	5,006,070	231,137	4,645,479	145,445	4,094,377
	29	177,043	5,183,113	166,172	4,811,651	48,741	4,143,118
April	4	42,635	5,225,748	170,234	4,981,885	164,609	4,307,727
	12	74,199	5,299,947	160,942	5,142,827	109,783	4,417,510
	19	93,413	5,393,360	211,383	5,354,210	83,223	4,500,733
	26	137,570	5,530,930	127,602	5,481,812	181,481	4,682,214
May	3	107,242	5,638,172	170,549	5,652,361	116,727	4,798,941
	10	148,502	5,786,674	183,763	5,836,124	149,904	4,948,845
	17	134,743	5,921,417	128,400	5,964,524	110,763	5,059,608
	24	72,793	5,994,210	101,258	6,065,782	130,391	5,189,999
	29	93,282	6,087,492	112,878	6,178,660	65,271	5,255,270
June	7	96,796	6,184,288	218,820	6,397,480	108,234	5,363,504
	14	107,093	6,291,381	42,236	6,439,716	135,007	5,498,511
	21	39,695	6,331,076	138,489	6,578,205	86,659	5,585,170
	28	112,973	6,444,049	154,054	6,732,259	108,225	5,693,395
July	5	105,298	6,549,347	59,517	6,791,776	114,736	5,808,131
	12	61,546	6,610,893	152,772	6,944,548	158,608	5,966,739
	19	78,987	6,689,880	50,308	6,994,856	103,442	6,070,181
	26	70,035	6,759,915	136,985	7,131,841	88,772	6,158,953
August	2	134,549	6,894,464	116,910	7,248,751	114,005	6,272,958
	9	39,910	6,934,347	68,684	7,317,435	99,103	6,372,061
	16	62,844	6,997,218	60,076	7,377,511	90,688	6,462,749
	23	81,067	7,078,285	108,499	7,486,010	94,043	6,556,792

Receipts of Cotton at Alexandria, Egypt

[In cantars of 99.049 pounds each]

Source: Alexandria General Produce Association

WEEK	1925-26		1926-27		1927-28		
	Week	Since Sept. 1	Week	Since Sept. 1	Week	Since Sept. 1	
September	1	66,551	34,010	14,697	2,582	41,598	4,874
	7	91,856	125,866	30,608	33,190	61,591	66,465
	15	142,513	268,379	59,557	92,747	188,531	254,996
	22	188,077	456,456	125,266	218,013	214,152	469,148
	29	297,518	753,974	175,958	393,971	249,170	718,318
October	5	356,660	1,110,634	234,357	628,328	240,300	958,618
	13	341,759	1,452,393	245,338	873,666	390,710	1,349,328
	20	353,162	1,805,555	324,170	1,197,836	306,884	1,656,212
	27	366,800	2,172,355	356,311	1,554,147	295,523	1,951,735
November	3	339,176	2,511,531	363,321	1,917,468	275,615	2,227,350
	10	338,072	2,849,603	353,540	2,271,008	245,695	2,473,045
	17	301,875	3,151,478	383,559	2,654,567	231,664	2,704,709
	24	198,116	3,349,594	371,596	3,026,163	236,147	2,940,856
December	1	320,088	3,669,682	393,584	3,419,747	214,098	3,154,954
	8	323,192	3,992,874	332,148	3,751,895	162,475	3,317,429
	15	322,818	4,315,692	234,310	3,986,205	145,755	3,463,184
	22	292,115	4,607,807	257,685	4,243,890	189,513	3,652,697
	29	284,462	4,892,269	270,750	4,514,640	166,451	3,819,148
January	5	210,423	5,102,692	293,759	4,808,399	169,507	3,988,655
	12	153,665	5,256,357	178,439	4,986,838	128,580	4,117,235
	19	154,166	5,410,523	178,665	5,165,503	112,477	4,229,712
	26	184,100	5,594,623	217,674	5,383,177	117,549	4,347,281
February	2	184,876	5,779,499	196,580	5,579,757	101,849	4,449,110
	9	218,353	5,997,852	172,816	5,752,573	107,081	4,556,191
	16	200,725	6,198,577	125,325	5,877,898	102,076	4,658,267
	23	197,196	6,395,773	135,125	6,013,023	94,381	4,752,648
March	1	156,572	6,552,345	290,263	6,303,286	109,647	4,862,295
	8	117,758	6,670,103	233,489	6,536,775	82,138	4,944,433
	14	76,928	6,747,031	188,347	6,725,122	111,111	5,055,544
	22	86,953	6,833,984	168,858	6,893,980	148,042	5,203,586
	29	93,349	6,927,333	115,352	7,009,332	73,489	5,277,075
April	4	66,445	6,993,778	114,372	7,123,704	60,945	5,338,020
	12	49,581	7,043,359	65,050	7,188,754	120,262	5,458,282
	19	67,343	7,110,702	103,549	7,292,303	63,551	5,521,833
	26	98,882	7,209,584	96,022	7,388,325	105,760	5,627,593
May	3	95,229	7,304,813	115,954	7,504,279	138,926	5,766,519
	10	63,712	7,368,525	179,298	7,683,577	139,464	5,905,983
	17	72,122	7,440,647	178,727	7,862,304	58,104	5,964,087
	24	61,882	7,502,529	218,468	8,080,772	21,066	5,985,153
	29	72,016	7,574,545	150,050	8,230,822	8,019	5,993,172
June	7	67,181	7,641,726	71,669	8,302,491	16,943	6,010,115
	14	75,457	7,717,183	40,164	8,342,655	3,556	6,013,671
	21	62,489	7,779,672	28,812	8,371,467	192	6,013,863
	28	28,902	7,808,574	19,712	8,391,179	5,650	6,019,513
July	5	41,530	7,850,104	25,215	8,416,394	4,255	6,023,768
	12	25,353	7,875,457	34,203	8,450,597	177	6,023,945
	19	15,297	7,890,754	15,962	8,466,559	667	6,024,612
	26	18,326	7,909,080	10,698	8,477,257	411	6,025,023
August	2	10,938	7,920,018	7,381	8,484,638	2,448	6,027,471
	9	12,671	7,932,689	4,673	8,489,311	518	6,027,989
	16	12,363	7,945,052	13,516	8,502,827	30	6,028,019
	23	6,532	7,951,584	7,022	8,509,849	1,384	6,029,403

Stock of Cotton at Alexandria, Egypt

[In cantars of 99.049 pounds each]

Source: Alexandria General Produce Association

WEEK	1922-23	1923-24	1924-25	1925-26	1926-27	1927-28
September 1	1,369,946	818,275	281,259	303,893	1,157,195	1,942,403
7	1,310,853	815,740	366,700	353,668	1,132,897	1,959,861
15	1,264,757	838,578	468,560	561,389	1,089,789	1,968,775
22	1,360,087	948,246	628,184	660,014	1,147,703	2,078,650
29	1,478,231	1,022,616	753,760	896,333	1,261,446	2,237,757
October 5	1,699,035	1,171,121	890,774	1,141,951	1,396,160	2,412,864
13	1,931,005	1,358,163	1,081,901	1,274,059	1,588,891	2,584,758
20	2,059,531	1,526,583	1,216,790	1,476,880	1,712,593	2,719,240
27	2,295,028	1,702,681	1,452,801	1,575,730	1,821,647	2,842,275
November 3	2,393,234	1,841,686	1,501,556	1,725,620	2,006,134	3,031,334
10	2,626,011	1,957,359	1,610,154	1,751,260	2,168,092	3,071,872
17	2,681,855	2,177,395	1,765,424	1,819,321	2,386,850	3,119,213
24	2,673,550	2,189,684	1,901,475	1,807,862	2,522,703	3,208,167
December 1	2,769,026	2,043,403	1,913,294	1,881,410	2,682,544	3,198,204
8	2,594,376	2,100,414	1,960,434	1,961,130	2,792,249	3,221,399
15	2,585,701	2,178,298	2,033,443	2,081,556	2,783,365	3,163,339
22	2,574,545	2,147,592	2,051,816	2,125,766	2,889,134	3,170,897
29	2,578,322	2,250,630	1,964,059	2,251,408	2,943,660	3,228,180
January 5	2,511,518	2,186,298	1,919,730	2,365,962	3,109,010	3,309,038
12	2,475,510	2,002,478	1,973,704	2,430,673	3,161,523	3,319,149
19	2,379,650	1,915,306	1,972,735	2,264,631	3,186,040	3,229,659
26	2,303,933	1,840,639	1,891,670	2,267,371	3,236,636	3,197,344
February 2	2,221,221	1,811,833	1,796,976	2,259,460	3,205,242	3,137,184
9	2,200,555	1,782,538	1,749,141	2,228,135	3,214,122	3,085,841
16	2,186,274	1,766,185	1,697,293	2,255,574	3,136,859	3,046,967
23	2,186,202	1,689,654	1,614,031	2,316,262	3,150,930	3,020,791
March 1	2,119,139	1,678,143	1,491,349	2,337,312	3,171,826	2,985,071
8	2,057,560	1,525,498	1,443,810	2,318,955	3,295,846	2,906,234
14	2,001,133	1,511,004	1,405,467	2,285,577	3,382,702	2,888,236
21	1,955,928	1,506,105	1,368,444	2,220,914	3,320,423	2,890,833
29	1,929,154	1,402,827	1,242,344	2,137,220	3,269,603	2,915,581
April 4	1,811,599	1,342,047	1,235,525	2,162,560	3,213,741	2,811,917
12	1,790,358	1,296,627	1,206,222	2,137,942	3,117,850	2,822,396
19	1,723,819	1,239,416	1,158,648	2,111,872	3,010,015	2,802,724
26	1,771,275	1,211,688	1,091,231	2,073,184	2,978,436	2,727,003
May 3	1,717,640	1,169,438	998,532	2,061,171	2,923,840	2,749,202
10	1,694,283	1,029,939	902,548	1,976,381	2,919,375	2,738,762
17	1,613,938	955,031	871,116	1,913,760	2,969,702	2,686,103
24	1,544,006	892,032	813,721	1,902,849	3,086,912	2,576,778
29	1,491,886	863,622	800,491	1,881,583	3,124,084	2,519,526
June 7	1,414,620	774,572	751,376	1,851,968	2,976,933	2,428,235
14	1,380,576	699,976	688,871	1,820,332	2,974,862	2,296,784
21	1,313,655	634,212	647,179	1,843,126	2,865,194	2,210,317
28	1,239,640	580,526	572,044	1,759,155	2,730,852	2,107,742
July 5	1,178,490	516,925	545,627	1,695,287	2,696,550	1,997,261
12	1,126,611	495,290	497,290	1,659,094	2,577,981	1,838,830
19	1,095,532	417,242	465,458	1,595,404	2,543,635	1,736,055
26	1,020,034	384,092	410,873	1,543,695	2,417,347	1,647,694
August 2	951,719	339,127	365,443	1,420,084	2,307,819	1,536,137
9	903,919	301,355	329,381	1,392,845	2,243,807	1,440,552
16	854,736	280,329	294,246	1,342,364	2,197,248	1,349,894
23	837,702	285,803	294,552	1,267,829	2,095,770	1,257,235

Egyptian Cotton Exports, by Countries of Destination, during Egyptian Cotton Season, from September 1 to August 31

[In running Egyptian bales]

Source: Alexandria General Produce Association

	1917-18	1918-19	1919-20	1920-21	1921-22	1922-23	1923-24	1924-25	1925-26	1926-27	1927-28
Belgium	-	-	812	2,331	4,235	7,108	7,639	3,299	3,985	5,906	3,431
England	503,597	459,774	345,878	223,292	353,275	403,045	450,436	424,953	426,278	436,798	343,517
France	44,560	78,487	50,989	40,266	83,198	114,185	137,707	126,464	126,052	117,149	114,986
Germany	-	-	5,874	8,558	16,582	19,092	17,167	14,377	9,523	21,517	26,577
Greece and Turkey	4,891	2,602	926	2,676	2,930 ¹	792 ¹	2,488 ¹	3,286 ¹	1,973	2,893	1,166
Holland	-	-	1,841	2,680	3,443	3,627	7,290	9,799	7,173	11,554	11,855
India and China	-	-	-	2,060	1,260	1,627	1,851	434	874	1,973	1,725
Italy	50,140	49,328	52,111	77,775	90,257	117,146	137,776	160,710	140,772	185,307	151,354
Japan	18,218	22,160	14,256	18,686	19,753	33,711	26,356	33,080	50,562	43,371	34,432
Portugal	-	250	695	763	650	925	850	823	843	978	665
Russia	-	-	-	-	-	1,450	-	-	-	18,061	62,500
Spain	16,911	10,436	8,805	14,671	19,399	29,557	27,508	19,608	26,001	23,957	21,901
United States	75,865	95,262	256,555	51,130	168,136	211,417	109,261	135,200	150,570	162,186	128,324
Other countries	-	10	15	527	410	1,646	1,000	2,530	1,587	2,078	3,712
Total	714,182	718,309	737,837	445,415	763,528	945,328	927,328	934,563	946,193	1,033,728	905,945

¹ Greece and Syria.

NOTE. — This table shows only the destination of the cotton as given when the cotton was shipped from Egypt. Some of the cotton was reshipped from these countries of initial destination and was finally consumed in other countries; for example, some of the cotton reported here as taken by Great Britain was reshipped by the latter to the United States.

[000's omitted]

Source: Liverpool Cotton Association

YEAR	IMPORTS					EXPORTS		CONSUMPTION		STOCK AT END OF SEASON		YEAR	
	American	Brazilian	Egyptian, etc.	Peruvian, etc.	East Indian	Total	Average Weight of Bales	Total	Average Weight of Bales	Liverpool	Great Britain		
1860	2,581	103	109	10	563	3,366	424	608	2,523	429	546	794	1860
1870	1,664	403	220	112	1,063	3,462	380	658	2,797	386	379	547	1870
1880	2,634	123	240	73	570	3,640	434	531	3,068	444	478	681	1880
1890	2,918	150	272	66	604	4,010	467	477	3,500	475	910	1,179	1890
1900-01	3,028	39	389	55	128	3,639	506	375	3,101	506	366	506	1900-01
1910-11	3,399	125	603	127	252	4,506	503	557	3,797	498	402	724	1910-11
1911-12	4,305	78	590	151	106	5,230	507	642	4,261	503	595	1,087	1911-12
1912-13	3,615	202	591	193	136	4,737	506	527	4,345	501	572	994	1912-13
1913-14	3,507	286	570	249	264	4,876	492	437	4,231	491	886	1,225	1913-14
1914-15	4,048	40	559	206	277	5,130	504	605	3,890	496	1,462	1,815	1914-15
1915-16	2,698	5	557	197	154	3,611	513	494	3,971	497	644	962	1915-16
1916-17	2,646	17	442	191	96	3,392	512	204	3,567	505	268	585	1916-17
1917-18	2,276	25	484	143	211	3,139	512	3	2,960	506	251	760	1917-18
1918-19	2,490	13	414	165	84	3,166	510	75	2,929	521	659	900	1918-19
1919-20	3,268	79	623	292	200	4,462	507	449	3,434	503	1,015	1,479	1919-20
1920-21	1,716	15	252	226	93	2,302	505	291	2,080	512	1,085	1,474	1920-21
1921-22	1,811	111	417	309	62	2,710	506	224	2,835	497	787	1,163	1921-22
1922-23	1,335	89	496	299	243	2,462	508	194	2,746	496	399	683	1922-23
1923-24	1,682	58	481	421	326	2,968	500	249	2,741	499	414	661	1923-24
1924-25	2,568	50	462	469	196	3,745	491	236	3,280	491	570	889	1924-25
1925-26	2,255	153	437	555	226	3,626	488	238	3,092	488	849	1,185	1925-26
1926-27	2,645	115	454	260	87	3,849	502	306	3,129	497	1,212	1,595	1926-27
1927-28	1,468	79	373	225	226	2,592	498	138	3,073	495	709	977	1927-28

NOTE. — Through 1890, the import, export, and consumption figures were for year ending December 31; from 1900-01 through 1913-14 the figures are for year ending August 31; commencing with 1914-15 the figures are for year ending July 31.

Indian Exports of Cotton

[Bales of 478 pounds net]

[Fiscal years ending March 31]

Source: Bureau of Foreign and Domestic Commerce

COUNTRY OF DESTINATION	1924	1925	1926	1927	1928
United Kingdom . . .	241,418	129,994	188,288	65,042	131,903
Germany	201,774	135,661	182,192	113,643	211,225
Netherlands	24,420	303,930	39,709	23,223	28,954
Belgium	216,988	161,775	203,419	124,674	189,186
France	145,801	107,680	161,152	96,879	152,127
Spain	73,130	77,162	60,984	42,350	50,607
Italy	460,507	389,601	381,618	239,448	272,228
Austria	35,091	6,241	1,617	800	46
Ceylon	5,331	3,433	5,717	3,322	4,183
Indo-China	22,244	21,699	36,541	16,342	31,883
China	225,571	228,249	456,454	308,048	92,005
Japan	1,436,451	1,545,547	1,744,256	1,447,041	1,016,923
United States	35,985	26,415	25,923	16,434	26,791
All other	5,677	11,079	4,138	4,602	4,238
Total	3,130,388	2,874,834	3,492,007	2,504,867	2,212,300

Brazilian Exports of Raw Cotton

[Bales of 478 pounds net]

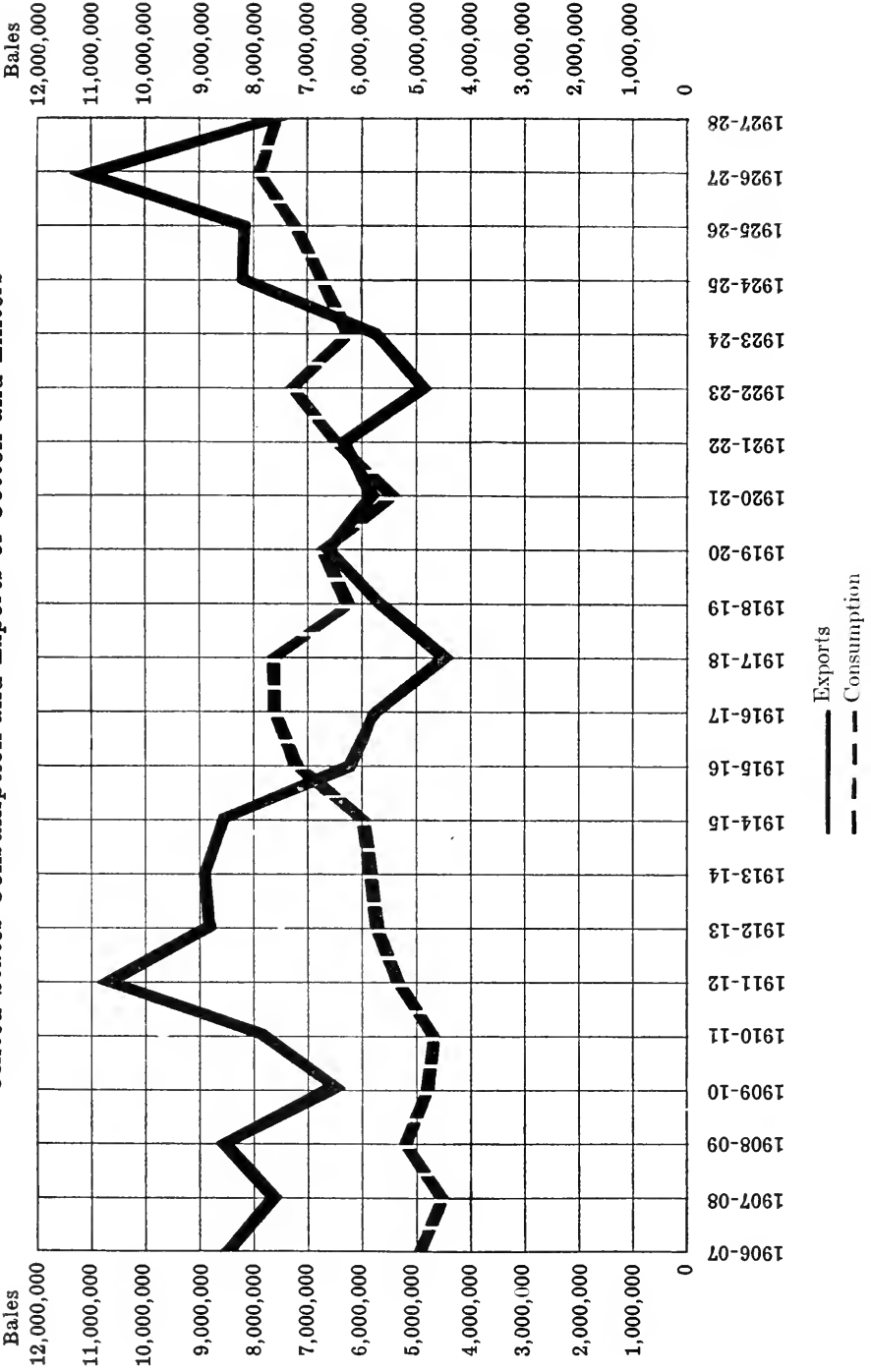
[Calendar years]

Source: Bureau of Foreign and Domestic Commerce

COUNTRY OF DESTINATION	Average, 1909-13	1922	1923	1924	1925	1926
Great Britain	63,646	78,154	52,267	18,904	95,946	55,977
France	2,771	26,464	8,661	1,277	19,720	2,719
Italy	6	-	-	68	3	-
Netherlands	883	-	-	773	2,279	2,094
Belgium	1,331	-	-	108	1,245	-
Germany	2,332	-	-	255	5,302	4,110
Austria-Hungary . . .	204	-	-	-	-	-
Portugal	7,517	26,619	20,312	7,084	10,170	8,400
Spain	491	-	-	-	-	-
Russia (in Europe) . .	49	-	-	-	-	-
United States	73	5,310	5	17	-	44
Argentina	46	-	-	-	-	-
Uruguay	7	-	-	-	-	-
All others	-	13,159	3,295	18	133	79
Total	79,356	149,706	84,540	28,502	134,798	73,423

1927 figures not available.

United States Consumption and Exports of Cotton and Linters



United States Production, Consumption, and Exports of Cotton and Linters

The statistics below are in running bales except that round bales are counted as half bales and foreign cotton in equivalent 500-pound bales. The years as given are the official cotton seasons. Through 1913-14 the seasons were from September 1 to August 31. Starting with 1914-15, they have been from August 1 to July 31.

Source: United States Bureau of the Census

COTTON YEAR	Production	Consumption	Exports
1906-07	13,097,992	4,984,936	8,503,265
1907-08	11,527,833	4,539,090	7,573,349
1908-09	13,418,144	5,240,719	8,574,024
1909-10	10,350,978	4,798,953	6,339,028
1910-11	12,384,248	4,704,978	7,781,414
1911-12	16,068,936	5,367,583	10,681,758
1912-13	14,159,078	5,786,330	8,800,966
1913-14	14,290,320	5,884,733	8,914,839
1914-15	16,738,241	6,009,207	8,544,563
1915-16	12,012,813	7,278,529	6,191,110
1916-17	12,664,078	7,658,207	5,739,009
1917-18	12,344,664	7,685,329	4,476,124
1918-19	12,816,716	6,223,837	5,663,920
1919-20	11,920,625	6,762,207	6,598,347
1920-21	13,699,975	5,408,979	5,796,107
1921-22	8,360,153	6,548,853	6,316,121
1922-23	10,319,843	7,312,201	4,864,027
1923-24	10,810,234	6,217,292	5,772,000
1924-25	14,497,361	6,852,265	8,195,876
1925-26	17,167,011	7,259,618	8,155,570
1926-27	18,796,934	7,995,668	11,183,938
1927-28	13,658,233	7,614,292	7,733,177

United States Imports of Cotton, by Countries of Production

[Equivalent 500-pound bales]

Source: United States Department of Commerce

SEASON ENDING —	Egypt	China	Peru	India	Mexico	All Other	Total
July 31, 1915	252,373	25,631	10,353	7,845	85,180	904	382,286
July 31, 1916	350,796	35,792	10,909	4,214	30,098	5,765	437,574
July 31, 1917	199,892	36,063	11,069	3,860	32,858	8,215	291,957
July 31, 1918	114,580	38,964	19,692	7,096	35,726	5,158	221,216
July 31, 1919	100,006	10,871	25,230	2,893	54,434	8,151	201,585
July 31, 1920	485,004	57,185	63,426	14,358	65,343	14,898	700,214
July 31, 1921	87,168	14,722	22,597	8,489	88,155	5,210	226,341
July 31, 1922	233,729	15,563	38,753	10,348	53,637	11,435	363,465
July 31, 1923	329,335	50,239	21,186	22,124	45,679	1,391	469,954
July 31, 1924	164,152	45,118	19,928	34,419	27,062	1,609	292,288
July 31, 1925	190,313	33,703	13,389	28,147	44,384	3,392	313,328
July 31, 1926	238,620	22,452	16,637	22,143	23,553	2,106	325,511
July 31, 1927	231,767	33,466	20,877	18,892	93,272	2,709	400,983
July 31, 1928	201,857	62,735	23,318	25,664	22,625	1,655	337,854
Month of —							
August, 1927	16,452	1,497	4,783	5,205	—	104	28,041
September, 1927	18,312	1,353	3,502	4,635	54	490	28,346
October, 1927	13,620	2,826	787	1,736	176	90	19,235
November, 1927	23,060	3,298	1,794	64	532	97	28,845
December, 1927	30,016	7,145	2,083	380	1,573	14	41,211
January, 1928	20,072	18,707	838	1,364	455	9	41,445
February, 1928	17,196	13,068	997	98	6,517	324	38,200
March, 1928	24,859	5,039	1,375	1,483	8,339	338	41,433
April, 1928	7,571	3,195	1,610	2,918	2,809	93	18,196
May, 1928	11,551	1,935	522	3,581	2,160	93	19,842
June, 1928	9,924	1,919	1,405	1,326	10	3	14,587
July, 1928	9,224	2,753	3,622	2,874	—	—	18,473

United States Exports of Domestic Cotton and Linters, by Countries of Destination

[For fiscal years]

Source: United States Department of Commerce

EXPORTS (EQUIVALENT 500-POUND BALES) TO —

Year	Total Value	Total	United Kingdom	Germany	France	Italy	Spain	Belgium	Russia ¹	Austria	Netherlands	All Other Europe	Japan	Canada	Mexico	All Other Countries
1894	\$210,869,289	5,366,565	2,970,903	909,389	610,854	211,716	225,361	128,907	140,082	960	18,581	39,686	9,693	65,085	35,055	270
1895	204,900,990	7,034,806	3,553,782	1,504,631	790,699	332,656	255,679	145,340	141,998	24,852	25,900	55,319	22,130	105,534	73,453	304
1896	190,056,460	6,470,453	2,207,222	1,038,457	716,225	261,644	216,178	87,966	91,622	15,912	14,219	51,367	46,388	68,974	38,817	322
1897	230,890,971	6,207,510	3,127,186	1,371,577	778,025	323,117	219,088	83,455	84,570	33,971	34,731	48,780	64,022	131,408	30,297	333
1898	230,442,215	7,706,529	3,532,101	1,558,525	812,038	387,581	263,648	161,941	103,825	35,614	43,509	48,189	224,214	122,435	42,433	13,416
1899	209,361,774	7,546,821	3,609,434	1,728,975	803,406	417,353	248,635	129,524	95,012	57,127	51,621	81,500	182,734	98,230	36,130	4,130
1900	241,832,737	3,202,128	3,392,128	1,619,173	736,061	443,951	248,612	148,314	104,981	44,419	44,635	65,635	328,202	109,983	18,322	13,045
1901	313,673,683	6,661,781	3,106,857	1,629,935	754,329	365,350	237,246	152,882	53,171	37,229	53,180	52,325	78,558	102,980	35,103	718
1902	290,651,819	7,001,558	3,182,324	1,705,815	775,773	445,437	270,692	152,292	73,446	38,737	22,418	61,679	178,365	129,016	27,300	7,064
1903	316,180,429	7,086,086	2,739,096	1,915,094	806,673	444,950	266,336	157,351	181,368	39,912	42,542	62,543	182,779	127,640	66,367	2,978
1904	370,811,246	6,126,386	2,475,752	1,797,354	734,286	363,295	184,862	105,213	168,506	28,158	16,055	61,488	45,870	88,795	56,172	580
1905	379,965,014	8,609,698	3,967,254	2,011,679	818,304	534,735	295,537	145,594	129,600	62,572	18,490	72,911	336,375	115,837	79,082	9,405
1906	401,005,921	7,268,090	3,181,143	1,571,441	817,383	486,607	241,747	114,673	112,480	56,375	31,463	44,486	147,269	141,908	29,285	4,603
1907	481,277,797	9,036,130	3,906,119	2,315,631	1,006,633	507,916	275,868	154,168	121,141	113,630	29,092	65,083	262,283	150,343	732	7,775
1908	437,788,202	7,633,997	2,936,352	2,385,063	889,653	418,921	262,744	119,470	98,371	90,049	27,684	62,125	200,396	113,997	4,767	4,375
1909	417,390,655	8,895,970	3,665,355	2,438,090	1,098,173	565,695	301,789	157,631	96,675	94,782	30,129	58,174	208,943	131,453	42,375	6,506
1910	450,447,913	8,413,416	2,444,568	1,887,657	930,422	336,327	178,455	67,203	57,220	18,823	18,823	43,378	95,000	125,592	29,604	1,881
1911	585,318,869	8,067,382	3,401,654	2,202,707	1,021,998	436,296	242,073	130,225	84,941	79,530	18,124	48,713	156,724	156,824	4,631	4,042
1912	603,549,271	11,070,231	4,343,108	3,156,171	1,228,294	636,077	313,500	211,963	112,262	125,564	35,242	83,821	480,984	181,067	16,129	145,579
1913	547,357,135	9,124,591	3,716,898	2,443,886	1,074,957	500,823	317,954	226,967	74,907	113,182	14,537	55,376	396,779	152,015	20,477	15,303
1914	610,475,301	9,521,881	3,581,501	2,881,324	1,139,389	537,357	297,339	227,474	99,076	106,511	35,053	63,725	353,440	150,993	34,071	11,018
1915	376,217,372	8,867,157	3,919,749	2,941,194	692,699	1,127,400	461,504	5,057	82,125	455	102,087	898,096	428,806	182,790	39,727	127,520
1916	370,186,347	6,166,140	2,760,890	1,806,347	890,376	836,915	304,246	—	173,449	—	544,035	169,154	503,077	197,659	23,065	170,592
1917	543,074,690	6,176,162	2,895,423	—	1,053,749	687,158	329,093	—	49,189	—	62,161	181,717	530,892	187,201	5,298	124,281
1918	655,024,655	2,387,101	2,387,101	—	658,553	369,123	299,194	—	15,945	—	10,098	82,572	583,546	249,973	10,706	14,122
1919	873,579,069	5,525,893	2,494,009	—	773,734	557,549	281,343	72,652	310	55,386	57,949	203,949	809,313	203,015	1,707	14,967
1920	1,381,307,302	7,087,487	4,434,794	420,758	596,391	617,263	275,034	169,572	—	42,858	186,476	183,729	876,250	216,606	1,141	16,615
1921	600,185,029	5,622,777	1,786,984	1,152,424	590,630	269,990	106,018	—	—	5,862	98,754	153,056	554,892	169,166	70,002	63,884
1922	596,378,861	6,717,570	1,806,743	1,616,647	820,044	408,500	341,551	186,272	—	2,908	96,203	133,614	895,367	201,166	6,195	139,325
1923	655,382,855	5,253,464	1,403,008	1,016,647	704,199	572,068	250,244	—	7,274	—	4,068	167,646	679,158	217,052	15,492	27,331
1924	903,975,146	5,808,713	1,694,895	1,345,554	751,424	563,733	216,253	168,968	120,318	2,144	112,456	153,233	809,313	203,015	1,082	32,965
1925	1,060,980,197	2,623,425	8,439,071	2,623,425	951,473	736,156	289,586	293,741	286,367	571	151,285	157,430	849,584	206,853	81	50,527
1926	917,719,990	8,211,671	2,297,641	1,890,307	943,586	745,070	314,619	233,775	618	125,891	155,250	118,261	1,118,261	253,932	568	126,608
1927	866,925,448	11,559,737	2,673,424	2,982,325	1,088,734	844,812	364,376	297,778	485,046	684	157,718	176,462	1,644,255	280,507	43	563,573
1928	820,537,294	8,120,191	1,464,534	2,221,964	939,684	714,529	320,921	290,624	448,398	2,084	152,667	155,044	1,007,351	245,991	12	236,388

¹ Includes Finland and Poland prior to 1919.

² Includes Czechoslovakia and Hungary prior to 1920.

United States Exports of Cotton, by Ports

[In running bales, including linters for cotton years]

Source: New York Cotton Exchange

	1922-23	1923-24	1924-25	1925-26	1926-27	1927-28
Galveston . . .	1,929,111	2,080,874	2,854,503	2,081,307	3,086,023	2,247,457
New Orleans . . .	814,017	945,227	1,379,102	1,834,343	2,135,443	1,396,009
Mobile . . .	59,099	22,676	80,789	149,613	244,972	223,064
Savannah . . .	293,496	343,241	480,783	870,441	1,036,231	643,731
Charleston . . .	89,732	157,405	243,983	282,890	547,271	261,166
Wilmington . . .	98,900	95,050	108,213	99,506	139,658	110,392
Norfolk . . .	174,320	219,631	252,226	311,085	338,701	172,001
Baltimore . . .	2,369	3,259	397	10,458	4,208	5,077
New York . . .	302,169	542,951	505,510	297,060	393,573	208,099
Boston . . .	13,552	18,555	14,325	14,686	11,890	10,473
Philadelphia . . .	1,977	2,917	7,490	2,998	6,555	2,205
Newport News . . .	—	19	—	—	379	519
Brunswick . . .	28,477	50	—	400	—	—
Pensacola, etc. . .	9,245	11,950	8,490	20,107	11,370	12,341
Port Arthur . . .	—	—	—	—	—	7,756
Port Townsend . . .	9,632	47,134	84,111	57,120	82,663	3,875
San Pedro, etc. . .	18,869	30,248	78,970	57,623	161,187	99,925
San Francisco . . .	69,112	77,986	111,970	82,917	95,475	4,633
Portland, Ore. . .	—	—	—	—	600	—
Nogales . . .	200	—	—	—	—	—
Texas City, etc. . .	3,765	1,754	16,794	—	91,117	48,791
Corpus Christi . . .	3,534	274	13	30	8,187	172,369
El Paso . . .	2,850	57	53	4	2	—
Houston . . .	719,942	1,065,612	1,821,828	1,796,671	2,551,439	1,968,969
Portland, Me. . .	199,053	145,656	200,051	251,707	274,919	235,798
Jacksonville . . .	675	2,254	1,858	12,457	341	—
Lake Charles . . .	—	—	—	—	—	1,441
Total . . .	4,844,096	5,814,780	8,251,459	8,233,423	11,222,204	7,836,091

Estimated Weekly Sales of Print Cloths at Fall River

[In thousands of pieces]

Source: J. M. Prendergast & Co.

WEEK ENDING		1921-22	1922-23	1923-24	1924-25	1925-26	1926-27	1927-28
July	30 . . .	—	—	—	130	80	130	60
August	6 . . .	150	100	20	100	50	100	69
	13 . . .	150	70	80	60	50	130	100
	20 . . .	120	100	130	40	40	80	75
	27 . . .	200	200	350	30	40	90	120
September	3 . . .	250	300	160	25	40	100	70
	10 . . .	100	100	200	25	40	90	50
	17 . . .	70	300	190	30	100	80	75
	24 . . .	100	250	180	100	120	75	60
October	1 . . .	200	250	130	100	100	70	40
	8 . . .	100	200	60	60	60	50	50
	15 . . .	80	225	50	40	60	50	50
	22 . . .	60	250	100	60	40	50	50
	29 . . .	150	200	130	75	40	50	50
November	5 . . .	110	200	130	300	40	60	50
	12 . . .	80	180	300	70	50	50	60
	19 . . .	80	160	60	40	50	50	50
	26 . . .	70	100	100	40	60	40	40
December	3 . . .	100	90	180	30	40	50	50
	10 . . .	180	80	85	40	50	50	50
	17 . . .	180	150	50	30	40	40	40
	24 . . .	230	200	60	75	50	70	60
	31 . . .	180	175	50	40	40	75	50
January	7 . . .	150	175	50	70	40	80	40
	14 . . .	70	175	40	60	75	150	40
	21 . . .	75	300	50	70	90	175	40
	28 . . .	100	240	50	80	100	120	40
February	4 . . .	100	120	50	80	100	100	40
	11 . . .	120	120	80	80	70	75	80
	18 . . .	130	150	40	65	75	70	40
	25 . . .	230	225	50	75	60	80	40
March	3 . . .	150	250	80	70	50	90	40
	10 . . .	100	200	40	60	50	100	40
	17 . . .	70	150	70	40	60	80	40
	24 . . .	120	120	60	30	40	75	40
	31 . . .	100	80	50	30	40	70	50
April	7 . . .	90	70	120	25	40	75	40
	14 . . .	110	40	200	40	40	60	40
	21 . . .	300	40	50	30	30	70	40
	28 . . .	150	40	30	30	50	75	50
May	5 . . .	250	60	40	30	50	100	60
	12 . . .	225	40	40	30	75	100	40
	19 . . .	175	30	25	40	80	75	25
	26 . . .	150	30	25	30	75	100	30
June	2 . . .	100	50	50	30	75	90	30
	9 . . .	200	40	50	60	60	80	20
	16 . . .	200	100	70	75	50	75	30
	23 . . .	240	75	30	80	60	90	30
	30 . . .	150	70	25	100	60	75	40
July	7 . . .	120	50	25	100	75	60	30
	14 . . .	120	40	30	80	100	60	40
	21 . . .	200	25	60	75	110	70	30
	28 . . .	100	20	150	75	90	60	30

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926, 1927 and 1928

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
CARDED BROADCLOTHS (GRAY ONLY) ¹						
1926	—	—	—	—	—	—
First quarter . . .	—	—	—	—	—	—
Second quarter . . .	—	—	—	—	—	—
Third quarter . . .	—	—	—	—	—	—
Fourth quarter . . .	—	—	—	—	—	—
1927	8,481	109,404	104,212	101,827	—	—
First quarter . . .	7,378	23,180	22,882	24,409	767	17,549
Second quarter . . .	8,156	25,877	22,924	16,360	3,720	10,985
Third quarter . . .	9,247	29,633	25,627	24,855	7,726	10,213
Fourth quarter . . .	9,145	30,714	32,779	31,203	5,661	8,637
1928	8,045	118,070	120,551	119,253	—	—
First quarter . . .	6,948	23,437	27,255	27,386	1,843	8,768
Second quarter . . .	9,875	33,020	26,780	25,216	8,083	7,204
Third quarter . . .	7,606	28,969	29,364	31,978	7,688	9,818
Fourth quarter . . .	7,751	32,644	37,152	34,673	3,180	7,339
CHAMBRAYS ²						
1926	10,220	144,944	145,170	142,020	—	—
First quarter . . .	11,114	40,536	31,859	25,267	23,618	12,507
Second quarter . . .	9,857	33,804	30,932	29,021	26,490	10,596
Third quarter . . .	8,237	28,532	40,319	63,159	14,703	33,436
Fourth quarter . . .	11,673	42,072	42,060	24,573	14,715	15,949
1927	11,714	172,028	162,696	169,316	—	—
First quarter . . .	12,106	45,744	42,558	55,963	17,901	29,354
Second quarter . . .	11,708	44,943	41,301	43,230	21,543	31,283
Third quarter . . .	11,096	39,218	41,145	42,296	19,616	32,434
Fourth quarter . . .	11,947	42,123	37,692	27,827	24,047	22,569
1928	1,825	133,950	131,106	141,251	—	—
First quarter . . .	1,868	38,015	31,713	27,463	30,349	18,319
Second quarter . . .	1,876	35,421	30,160	27,520	35,610	15,679
Third quarter . . .	1,901	27,787	33,721	46,846	29,676	28,804
Fourth quarter . . .	1,655	32,727	35,512	39,422	26,891	32,714

**Production, Shipments, Sales, Stocks and Orders of Certain
Standard Cloths, 1926, 1927 and 1928 — (Continued)**

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
CHEVIOTS ²						
1926	3,293	46,411	46,242	44,812	—	—
First quarter . . .	3,626	12,400	8,620	6,624	13,495	5,058
Second quarter . . .	3,177	10,777	11,097	11,725	13,175	5,686
Third quarter . . .	2,645	9,741	13,699	15,707	9,217	7,694
Fourth quarter . . .	3,726	13,493	12,826	10,756	9,884	5,624
1927	4,566	62,088	61,508	62,856	—	—
First quarter . . .	3,783	12,954	12,036	17,777	10,802	11,365
Second quarter . . .	4,428	15,224	14,005	18,298	12,021	15,658
Third quarter . . .	4,919	16,363	19,181	16,514	9,203	12,991
Fourth quarter . . .	5,135	17,547	16,286	10,267	10,464	6,972
1928	4,571	55,527	47,820	53,758	—	—
First quarter . . .	4,365	13,268	9,891	14,131	13,841	11,212
Second quarter . . .	5,026	14,106	12,427	15,202	15,520	13,987
Third quarter . . .	3,629	12,189	12,261	8,147	15,448	9,873
Fourth quarter . . .	5,264	15,964	13,241	16,278	18,171	12,910
DENIMS, WHITE BACK, 2.20 YARD ²						
1926	—	—	—	—	—	—
First quarter . . .	—	—	—	—	—	—
Second quarter . . .	—	—	—	—	—	—
Third quarter . . .	—	—	—	—	—	—
Fourth quarter . . .	—	—	—	—	—	—
1927	—	133,294	133,315	123,581	—	—
First quarter . . .	—	32,709	37,106	45,133	2,626	32,925
Second quarter . . .	—	35,748	35,508	35,229	2,866	32,646
Third quarter . . .	—	31,908	33,755	28,428	1,019	27,319
Fourth quarter . . .	—	32,929	26,946	14,791	7,002	15,164
1928	—	124,006	116,790	149,792	—	—
First quarter . . .	—	31,141	26,992	18,146	11,151	6,318
Second quarter . . .	—	29,549	29,414	34,174	11,286	11,078
Third quarter . . .	—	26,172	25,552	41,894	11,906	27,420
Fourth quarter . . .	—	37,144	34,832	55,578	14,218	48,166

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926, 1927 and 1928 — (Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
DENIMS, EXCLUDING WHITE BACK, 2.20 YARD ²						
1926	—	—	—	—	—	—
First quarter . . .	—	—	—	—	—	—
Second quarter . . .	—	—	—	—	—	—
Third quarter . . .	—	—	—	—	—	—
Fourth quarter . . .	—	—	—	—	—	—
1927	—	90,642	91,629	89,298	—	—
First quarter . . .	—	21,850	24,339	30,293	2,853	17,672
Second quarter . . .	—	21,075	20,718	21,960	3,210	18,914
Third quarter . . .	—	23,364	24,645	22,589	1,929	16,858
Fourth quarter . . .	—	24,353	21,927	14,456	4,355	9,387
1928	—	81,302	77,050	85,386	—	—
First quarter . . .	—	24,829	18,548	13,806	10,636	4,645
Second quarter . . .	—	15,819	15,708	16,135	10,747	5,072
Third quarter . . .	—	15,894	19,728	28,689	6,913	14,033
Fourth quarter . . .	—	24,760	23,066	26,756	8,607	17,723
THREE-LEAF DRILLS, 40 INCHES AND NARROWER ²						
1926	2,641	46,159	48,466	43,968	—	—
First quarter . . .	3,687	16,719	16,843	13,849	7,718	3,275
Second quarter . . .	2,741	10,978	7,669	6,009	11,027	1,615
Third quarter . . .	2,030	8,744	13,750	15,895	6,021	3,760
Fourth quarter . . .	2,107	9,718	10,204	8,215	5,535	1,771
1927	1,927	41,532	41,116	41,667	—	—
First quarter . . .	2,343	11,527	12,722	14,348	4,340	3,397
Second quarter . . .	2,037	10,662	10,932	11,472	4,070	3,937
Third quarter . . .	1,994	9,349	10,746	9,426	2,673	2,617
Fourth quarter . . .	1,335	9,994	6,716	6,421	5,951	2,322
1928	3,187	54,520	53,083	56,873	—	—
First quarter . . .	3,737	16,444	11,856	13,027	10,539	3,493
Second quarter . . .	3,669	15,463	13,254	13,418	12,748	3,657
Third quarter . . .	2,491	10,359	12,662	14,636	10,445	5,631
Fourth quarter . . .	2,853	12,254	15,311	15,792	7,388	6,112

**Production, Shipments, Sales, Stocks and Orders of Certain
Standard Cloths, 1926, 1927 and 1928 — (Continued)**

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
DRILLS, 40 INCHES AND NARROWER, EXCLUDING THREE-LEAF²						
1926	4,199	60,856	60,305	58,727	—	—
First quarter . . .	5,068	19,365	18,628	17,130	6,112	2,828
Second quarter . . .	3,882	14,666	14,699	14,067	6,079	2,196
Third quarter . . .	4,093	13,350	15,292	16,834	4,137	3,738
Fourth quarter . . .	3,754	13,475	11,686	10,696	5,926	2,748
1927	4,328	63,216	62,163	66,472	—	—
First quarter . . .	3,361	13,686	17,389	21,201	2,223	6,560
Second quarter . . .	3,374	13,184	14,497	16,460	910	8,523
Third quarter . . .	4,133	15,453	15,373	15,332	990	8,482
Fourth quarter . . .	6,445	20,893	14,904	13,479	6,979	7,057
1928	4,105	48,441	59,239	60,505	—	—
First quarter . . .	5,121	17,368	14,165	10,554	10,182	3,446
Second quarter . . .	4,062	13,250	15,118	15,084	8,314	3,412
Third quarter . . .	3,047	11,394	12,268	13,093	7,440	4,237
Fourth quarter . . .	4,190	16,429	17,688	21,774	6,181	8,323

DRILLS AND TWILLS, WIDER THAN 40 INCHES²

1926	—	22,077	20,757	17,355	—	—
First quarter . . .	—	7,666	7,003	3,141	1,005	2,637
Second quarter . . .	—	5,020	3,808	2,641	2,217	1,470
Third quarter . . .	—	4,378	5,067	5,761	1,528	2,164
Fourth quarter . . .	—	5,013	4,879	5,812	1,662	3,097
1927	—	25,334	22,807	24,214	—	—
First quarter . . .	—	6,780	7,185	7,276	1,257	3,188
Second quarter . . .	—	6,897	6,019	6,482	2,135	3,651
Third quarter . . .	—	5,942	5,267	4,517	2,810	2,901
Fourth quarter . . .	—	5,715	4,336	5,939	4,189	4,504
1928	2,232	26,831	30,109	33,618	—	—
First quarter . . .	2,121	5,963	7,454	6,070	2,698	3,120
Second quarter . . .	2,195	6,206	7,282	6,693	1,622	2,531
Third quarter . . .	2,192	6,486	6,728	10,732	1,380	6,535
Fourth quarter . . .	2,420	8,176	8,645	10,123	911	8,013

**Production, Shipments, Sales, Stocks and Orders of Certain
Standard Cloths, 1926, 1927 and 1928 — (Continued)**

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
COTTON DUCK, WIDE (POUNDS) ²						
1926	—	17,425,283	16,772,312	—	—	—
First quarter . . .	—	4,610,023	4,609,106	—	518,345	—
Second quarter . . .	—	4,867,190	4,371,592	—	1,013,943	—
Third quarter . . .	—	3,688,145	3,415,814	—	1,286,274	—
Fourth quarter . . .	—	4,259,925	4,375,800	—	1,170,399	—
1927	—	18,726,550	16,377,055	—	—	—
First quarter . . .	—	4,947,912	4,517,469	—	1,600,842	—
Second quarter . . .	—	4,795,775	4,193,566	—	2,203,051	—
Third quarter . . .	—	4,280,284	3,718,446	—	2,764,889	—
Fourth quarter . . .	—	4,702,579	3,947,574	—	3,519,894	—
1928	—	18,999,052	20,552,416	—	—	—
First quarter . . .	—	4,514,096	3,699,623	—	4,334,367	—
Second quarter . . .	—	4,656,010	4,881,484	—	4,108,893	—
Third quarter . . .	—	4,408,885	5,359,355	—	3,158,423	—
Fourth quarter . . .	—	5,420,061	6,611,954	—	1,966,530	—
ALL SAIL DUCK (POUNDS) ²						
1926	—	2,798,495	2,839,018	—	—	—
First quarter . . .	—	777,552	809,033	—	195,025	—
Second quarter . . .	—	763,249	693,125	—	265,149	—
Third quarter . . .	—	547,915	560,791	—	252,273	—
Fourth quarter . . .	—	709,779	776,069	—	185,983	—
1927	—	3,310,711	3,006,953	—	—	—
First quarter . . .	—	1,012,020	956,154	—	241,849	—
Second quarter . . .	—	795,908	710,741	—	327,016	—
Third quarter . . .	—	764,826	694,586	—	397,256	—
Fourth quarter . . .	—	737,957	645,472	—	489,741	—
1928	—	2,911,985	3,057,840	—	—	—
First quarter . . .	—	721,431	625,384	—	585,788	—
Second quarter . . .	—	714,830	696,318	—	604,300	—
Third quarter . . .	—	710,504	768,067	—	546,737	—
Fourth quarter . . .	—	765,220	968,071	—	343,886	—

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926, 1927 and 1928 — (Continued)

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
ALL ARMY DUCK (POUNDS) ²						
1926	—	10,890,715	10,806,152	—	—	—
First quarter . . .	—	2,868,536	2,852,769	—	386,056	—
Second quarter . . .	—	2,686,254	2,430,414	—	641,896	—
Third quarter . . .	—	2,226,424	2,402,031	—	466,289	—
Fourth quarter . . .	—	3,109,501	3,120,938	—	454,852	—
1927	—	13,196,655	12,876,087	—	—	—
First quarter . . .	—	3,313,321	3,513,739	—	254,434	—
Second quarter . . .	—	3,107,546	3,222,325	—	139,655	—
Third quarter . . .	—	3,528,917	3,207,074	—	461,498	—
Fourth quarter . . .	—	3,246,871	2,932,949	—	775,420	—
1928	—	11,228,264	11,513,081	—	—	—
First quarter . . .	—	2,701,051	2,899,760	—	576,711	—
Second quarter . . .	—	2,703,024	2,730,284	—	549,451	—
Third quarter . . .	—	2,574,452	2,592,262	—	531,641	—
Fourth quarter . . .	—	3,249,737	3,290,775	—	490,603	—
HOSE AND BELTING, DUCK (POUNDS) ²						
1926	—	34,828,240	34,710,314	—	—	—
First quarter . . .	—	8,882,018	8,921,294	—	274,218	—
Second quarter . . .	—	7,690,430	7,654,405	—	310,243	—
Third quarter . . .	—	8,092,187	8,124,695	—	277,735	—
Fourth quarter . . .	—	10,163,605	10,009,920	—	431,420	—
1927	—	32,283,862	32,311,844	—	—	—
First quarter . . .	—	8,571,597	8,658,594	—	344,423	—
Second quarter . . .	—	7,983,851	7,890,693	—	437,581	—
Third quarter . . .	—	7,529,795	7,526,872	—	440,504	—
Fourth quarter . . .	—	8,198,619	8,235,685	—	403,438	—
1928	—	29,176,318	29,356,950	—	—	—
First quarter . . .	—	7,712,092	7,784,292	—	331,238	—
Second quarter . . .	—	6,582,567	6,339,471	—	574,334	—
Third quarter . . .	—	6,379,857	6,646,143	—	308,048	—
Fourth quarter . . .	—	8,501,802	8,587,044	—	222,806	—

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926, 1927 and 1928 — (Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
SINGLE FILLING FLAT DUCKS, 29 INCHES, 8 OUNCES ²						
1926	—	—	—	—	—	—
First quarter . . .	—	—	—	—	—	—
Second quarter . . .	—	—	—	—	—	—
Third quarter . . .	—	—	—	—	—	—
Fourth quarter . . .	—	—	—	—	—	—
1927	—	21,801	20,918	19,341	—	—
First quarter . . .	—	—	—	—	—	—
Second quarter . . .	—	6,993	6,482	11,644	5,285	7,540
Third quarter . . .	—	9,122	12,410	5,426	1,997	556
Fourth quarter . . .	—	5,686	2,026	2,271	5,657	801
1928	—	17,497	17,809	17,530	—	—
First quarter . . .	—	5,183	2,151	3,236	8,689	1,886
Second quarter . . .	—	5,777	4,489	7,481	9,977	4,878
Third quarter . . .	—	4,158	8,130	3,672	6,005	420
Fourth quarter . . .	—	2,379	3,039	3,141	5,345	522
SINGLE FILLING FLAT DUCKS, EXCLUDING 29 INCHES, 8 OUNCES ²						
1926	—	—	—	—	—	—
First quarter . . .	—	—	—	—	—	—
Second quarter . . .	—	—	—	—	—	—
Third quarter . . .	—	—	—	—	—	—
Fourth quarter . . .	—	—	—	—	—	—
1927	—	25,379	24,270	20,385	—	—
First quarter . . .	—	—	—	—	—	—
Second quarter . . .	—	9,344	9,433	13,499	4,845	11,228
Third quarter . . .	—	7,950	9,240	2,077	3,555	4,065
Fourth quarter . . .	—	8,085	5,597	4,809	6,043	3,277
1928	—	28,129	27,733	29,274	—	—
First quarter . . .	—	6,840	5,953	4,375	6,930	1,699
Second quarter . . .	—	7,215	7,243	8,743	6,902	3,199
Third quarter . . .	—	6,554	6,841	7,734	6,615	4,092
Fourth quarter . . .	—	7,520	7,696	8,422	6,439	4,818

**Production, Shipments, Sales, Stocks and Orders of Certain
Standard Cloths, 1926, 1927 and 1928 — (Continued)**

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
DOUBLE FILLING FLAT DUCKS²						
1926	—	—	—	—	—	—
First quarter . . .	—	—	—	—	—	—
Second quarter . . .	—	—	—	—	—	—
Third quarter . . .	—	—	—	—	—	—
Fourth quarter . . .	—	—	—	—	—	—
1927	—	8,910	7,358	6,812	—	—
First quarter . . .	—	—	—	—	—	—
Second quarter . . .	—	3,693	3,155	3,129	903	1,697
Third quarter . . .	—	2,797	2,362	1,560	1,338	895
Fourth quarter . . .	—	2,420	1,841	2,123	1,917	1,177
1928	—	9,586	9,914	10,026	—	—
First quarter . . .	—	2,301	2,370	2,167	1,848	974
Second quarter . . .	—	2,096	2,051	1,889	1,893	812
Third quarter . . .	—	2,787	2,608	2,648	2,072	852
Fourth quarter . . .	—	2,402	2,885	3,322	1,589	1,289

CANTON FLANNELS, FOR THE MITTEN TRADE²

1926	—	—	—	—	—	—
First quarter . . .	—	—	—	—	—	—
Second quarter . . .	—	—	—	—	—	—
Third quarter . . .	—	—	—	—	—	—
Fourth quarter . . .	—	—	—	—	—	—
1927	—	39,712	42,873	52,931	—	—
First quarter . . .	—	9,671	11,047	18,949	3,956	10,769
Second quarter . . .	—	10,194	10,874	8,058	3,276	7,953
Third quarter . . .	—	8,803	9,618	9,021	2,461	7,356
Fourth quarter . . .	—	11,044	11,334	16,903	2,171	12,925
1928	—	39,878	35,739	36,660	—	—
First quarter . . .	—	12,667	10,334	6,150	4,504	8,741
Second quarter . . .	—	10,132	8,397	5,751	6,239	6,095
Third quarter . . .	—	7,362	7,277	5,802	6,324	4,620
Fourth quarter . . .	—	9,717	9,731	18,957	6,310	13,846

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926, 1927 and 1928 — (Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
GINGHAMS, CLASS A²						
1926	869	9,814	13,895	13,731	—	—
First quarter . . .	956	2,767	5,874	5,613	8,055	1,162
Second quarter . . .	1,171	3,607	691	239	10,971	710
Third quarter . . .	719	1,772	3,724	4,454	9,019	1,440
Fourth quarter . . .	629	1,668	3,606	3,425	7,081	1,259
1927	1,308	15,924	18,913	19,046	—	—
First quarter . . .	1,287	3,926	7,040	8,323	3,967	2,542
Second quarter . . .	1,517	4,951	5,566	6,132	3,352	3,108
Third quarter . . .	1,146	3,385	3,574	1,802	3,163	1,336
Fourth quarter . . .	1,280	3,662	2,733	2,789	4,092	1,392
1928	1,075	11,030	10,120	9,571	—	—
First quarter . . .	1,327	4,075	3,604	2,570	4,563	358
Second quarter . . .	1,036	2,681	1,625	1,546	5,619	279
Third quarter . . .	1,092	2,410	2,123	2,426	5,906	582
Fourth quarter . . .	844	1,864	2,768	3,029	5,002	843
GINGHAMS, CLASS B²						
1926	4,475	55,646	63,262	65,733	—	—
First quarter . . .	4,860	15,106	17,467	18,487	12,582	5,887
Second quarter . . .	3,956	12,522	15,492	13,524	9,612	3,919
Third quarter . . .	4,264	13,059	14,768	18,894	7,903	8,045
Fourth quarter . . .	4,820	14,959	15,535	14,828	7,327	7,338
1927	4,233	54,716	51,411	53,074	—	—
First quarter . . .	4,326	13,656	15,225	21,240	5,758	13,353
Second quarter . . .	4,240	13,890	11,949	15,660	7,699	17,064
Third quarter . . .	4,305	13,939	14,186	9,072	7,452	11,950
Fourth quarter . . .	4,060	13,231	10,051	7,102	10,632	9,001
1928	3,584	49,243	48,231	47,800	—	—
First quarter . . .	4,104	14,642	13,388	11,402	11,886	7,015
Second quarter . . .	3,532	12,748	9,330	9,009	15,304	6,694
Third quarter . . .	3,075	10,487	9,311	12,051	16,480	9,434
Fourth quarter . . .	3,624	11,366	16,202	15,338	11,644	8,570

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926, 1927 and 1928 — (Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
GINGHAMS, CLASS C ²						
1926	10,959	114,530	123,170	120,329	—	—
First quarter . . .	10,867	27,041	32,135	32,844	27,589	20,046
Second quarter . . .	12,429	32,440	33,356	28,984	26,673	15,674
Third quarter . . .	10,000	26,789	32,151	33,267	21,311	16,790
Fourth quarter . . .	10,541	28,260	25,528	25,234	24,043	16,496
1927	10,681	119,000	125,188	121,785	—	—
First quarter . . .	11,834	31,944	37,960	41,615	18,027	20,151
Second quarter . . .	12,007	33,503	28,901	32,320	22,629	23,570
Third quarter . . .	9,377	26,563	29,548	30,224	19,644	24,246
Fourth quarter . . .	9,505	26,990	28,779	17,626	17,855	13,093
1928	7,308	74,727	73,729	74,927	—	—
First quarter . . .	9,308	25,367	20,992	14,484	22,230	6,585
Second quarter . . .	7,084	16,655	13,957	20,241	24,928	12,869
Third quarter . . .	7,109	17,459	20,053	17,066	22,334	9,882
Fourth quarter . . .	5,732	15,246	18,727	23,136	18,853	14,291
GINGHAMS, CLASS D ²						
1926	1,425	9,663	12,517	12,118	—	—
First quarter . . .	1,518	2,429	3,145	3,320	8,897	1,369
Second quarter . . .	1,684	2,952	3,143	2,486	8,706	712
Third quarter . . .	931	1,378	2,491	3,172	7,593	1,393
Fourth quarter . . .	1,569	2,904	3,738	3,140	6,759	795
1927	1,349	10,484	12,523	13,058	—	—
First quarter . . .	1,620	2,916	4,946	5,489	4,729	1,338
Second quarter . . .	1,520	3,171	2,660	2,877	5,240	1,555
Third quarter . . .	1,186	2,229	2,203	1,782	5,266	1,134
Fourth quarter . . .	1,069	2,168	2,714	2,910	4,720	1,330
1928	612	5,057	7,921	7,340	—	—
First quarter . . .	923	2,164	2,046	1,351	4,838	635
Second quarter . . .	813	1,515	2,472	2,168	3,881	331
Third quarter . . .	337	647	1,747	1,866	2,781	450
Fourth quarter . . .	374	731	1,656	1,955	1,856	749

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926, 1927 and 1928 — (Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
GINGHAMS, CLASS E ²						
1926	1,152	6,257	5,539	5,457	—	—
First quarter . . .	812	1,122	1,631	1,846	3,171	684
Second quarter . . .	1,446	2,030	1,351	977	3,850	310
Third quarter . . .	1,202	1,429	1,203	1,408	4,076	515
Fourth quarter . . .	1,150	1,076	1,354	1,226	4,398	387
1927	958	5,670	6,621	6,566	—	—
First quarter . . .	1,071	1,734	2,677	2,764	3,455	474
Second quarter . . .	1,247	1,838	1,318	1,087	3,975	243
Third quarter . . .	890	1,078	1,563	1,569	3,490	249
Fourth quarter . . .	626	1,020	1,063	1,146	3,447	332
1928	451	2,705	2,837	2,655	—	—
First quarter . . .	631	979	1,130	877	3,296	79
Second quarter . . .	559	827	374	439	3,749	144
Third quarter . . .	222	213	275	204	3,687	73
Fourth quarter . . .	393	686	1,058	1,135	3,315	150
JEANS ^{2, 3}						
1926	1,696	20,222	22,505	22,764	—	—
First quarter . . .	1,893	5,927	6,192	5,596	2,824	937
Second quarter . . .	1,655	4,799	4,650	4,173	2,973	460
Third quarter . . .	1,333	3,685	5,502	6,614	1,156	1,572
Fourth quarter . . .	1,905	5,811	6,161	6,381	806	1,792
1927	2,644	33,184	30,018	32,209	—	—
First quarter . . .	2,461	7,653	8,052	10,265	407	4,005
Second quarter . . .	2,519	7,922	7,783	8,693	546	4,915
Third quarter . . .	2,664	8,442	8,355	7,686	633	4,246
Fourth quarter . . .	2,933	9,167	5,828	5,565	3,972	3,983
1928	2,687	36,111	34,228	34,360	—	—
First quarter . . .	3,401	11,584	9,903	9,206	5,653	3,286
Second quarter . . .	2,837	9,331	8,636	7,993	6,348	2,643
Third quarter . . .	2,135	7,262	6,388	7,165	7,222	3,420
Fourth quarter . . .	2,375	7,934	9,301	9,996	5,855	4,115

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926, 1927 and 1928 — (Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
KHAKI, TWILLS ²						
1926	—	—	—	—	—	—
First quarter . . .	—	—	—	—	—	—
Second quarter . . .	—	—	—	—	—	—
Third quarter . . .	—	—	—	—	—	—
Fourth quarter . . .	—	—	—	—	—	—
1927	—	26,047	24,441	22,820	—	—
First quarter . . .	—	6,054	7,153	7,652	1,822	4,503
Second quarter . . .	—	9,126	7,006	6,476	3,942	3,973
Third quarter . . .	—	6,732	4,839	4,832	5,835	3,966
Fourth quarter . . .	—	4,135	5,443	3,860	4,527	2,383
1928	—	16,749	17,767	19,954	—	—
First quarter . . .	—	4,265	5,197	4,660	3,595	1,846
Second quarter . . .	—	4,749	4,836	4,914	3,508	1,924
Third quarter . . .	—	3,244	3,643	4,720	3,109	3,001
Fourth quarter . . .	—	4,491	4,091	5,660	3,509	4,570
KHAKI, DRILLS ²						
1926	—	—	—	—	—	—
First quarter . . .	—	—	—	—	—	—
Second quarter . . .	—	—	—	—	—	—
Third quarter . . .	—	—	—	—	—	—
Fourth quarter . . .	—	—	—	—	—	—
1927	—	10,151	10,010	11,388	—	—
First quarter . . .	—	1,821	2,001	2,900	689	1,172
Second quarter . . .	—	2,596	2,566	3,215	719	1,821
Third quarter . . .	—	2,871	2,818	2,660	772	1,663
Fourth quarter . . .	—	2,863	2,625	2,613	1,010	1,651
1928	—	8,538	8,169	9,391	—	—
First quarter . . .	—	2,458	2,101	1,824	1,367	1,374
Second quarter . . .	—	2,241	2,303	2,286	1,305	1,357
Third quarter . . .	—	1,948	1,990	1,765	1,263	1,132
Fourth quarter . . .	—	1,891	1,775	3,516	1,379	2,873

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926, 1927 and 1928 — (Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
KHAKI, JEANS ²						
1926	—	—	—	—	—	—
First quarter . . .	—	—	—	—	—	—
Second quarter . . .	—	—	—	—	—	—
Third quarter . . .	—	—	—	—	—	—
Fourth quarter . . .	—	—	—	—	—	—
1927	—	15,491	14,992	17,089	—	—
First quarter . . .	—	3,050	3,326	4,105	697	1,730
Second quarter . . .	—	4,084	4,248	5,531	533	3,013
Third quarter . . .	—	4,303	3,761	3,502	1,075	2,754
Fourth quarter . . .	—	4,054	3,657	3,951	1,472	3,048
1928	—	16,221	14,869	14,970	—	—
First quarter . . .	—	5,070	4,606	3,756	1,936	2,198
Second quarter . . .	—	4,449	4,020	3,796	2,365	1,974
Third quarter . . .	—	3,053	2,850	2,909	2,568	2,033
Fourth quarter . . .	—	3,649	3,393	4,509	2,824	3,149
OSNABURGS, 30 INCHES, 7 OUNCES ¹						
1926	1,870	59,835	65,109	69,265	—	—
First quarter . . .	1,997	16,060	16,937	20,964	5,284	10,177
Second quarter . . .	1,941	15,222	19,918	18,683	588	8,942
Third quarter . . .	1,966	15,625	13,731	8,162	2,482	3,373
Fourth quarter . . .	1,577	12,928	14,523	21,456	887	10,306
1927	1,773	57,661	54,171	45,369	—	—
First quarter . . .	1,742	14,476	14,910	15,371	453	10,767
Second quarter . . .	1,910	15,893	15,814	10,565	532	5,518
Third quarter . . .	1,962	15,870	12,055	8,042	4,347	1,505
Fourth quarter . . .	1,478	11,422	11,392	11,391	4,377	1,504
1928	776	23,179	24,557	23,767	—	—
First quarter . . .	913	7,316	6,397	6,836	5,296	1,943
Second quarter . . .	1,049	7,432	10,686	9,618	2,042	875
Third quarter . . .	775	5,119	4,247	3,899	2,914	527
Fourth quarter . . .	368	3,312	3,227	3,414	2,999	714

**Production, Shipments, Sales, Stocks and Orders of Certain
Standard Cloths, 1926, 1927 and 1928 — (Continued)**

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
OSNABURGS, EXCLUDING 30 INCHES, 7 OUNCES ¹						
1926	1,488	35,742	35,964	40,489	—	—
First quarter . . .	1,109	6,126	6,074	6,105	2,049	4,056
Second quarter . . .	1,338	8,163	8,680	7,219	1,532	2,595
Third quarter . . .	1,554	9,462	9,556	14,877	1,438	7,916
Fourth quarter . . .	1,953	11,991	11,654	12,288	1,775	8,550
1927	2,585	65,118	61,984	58,425	—	—
First quarter . . .	2,425	17,161	16,795	16,779	2,141	8,534
Second quarter . . .	2,633	16,153	15,806	16,477	2,488	9,205
Third quarter . . .	2,316	13,672	13,985	14,310	2,175	9,530
Fourth quarter . . .	2,968	18,132	15,398	10,859	4,909	4,991
1928	2,121	48,160	48,746	52,860	—	—
First quarter . . .	2,310	13,627	12,891	12,000	5,645	4,100
Second quarter . . .	1,839	9,690	10,947	10,613	4,388	3,766
Third quarter . . .	1,662	9,172	9,729	12,651	3,831	6,688
Fourth quarter . . .	2,673	15,671	15,179	17,596	4,323	9,105

PAJAMA CHECKS, 36½ INCHES, 72/80, 4.70 YARD¹

1926	—	56,825	53,700	59,005	—	—
First quarter . . .	—	9,591	9,837	23,152	144	17,655
Second quarter . . .	—	14,278	13,523	13,792	899	17,924
Third quarter . . .	—	16,203	14,694	13,975	2,408	17,205
Fourth quarter . . .	—	16,753	15,646	8,086	3,515	9,645
1927	—	34,987	37,296	30,099	—	—
First quarter . . .	—	11,312	10,984	5,491	3,843	4,152
Second quarter . . .	—	8,205	6,079	6,997	5,969	5,070
Third quarter . . .	—	7,461	9,821	7,798	3,609	3,047
Fourth quarter . . .	—	8,009	10,412	9,813	1,206	2,448
1928	—	36,451	35,163	33,010	—	—
First quarter . . .	—	8,163	8,431	8,819	938	2,836
Second quarter . . .	—	11,172	10,886	9,555	1,224	1,505
Third quarter . . .	—	8,396	8,020	7,708	1,600	1,193
Fourth quarter . . .	—	8,720	7,826	6,928	2,494	295

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926, 1927 and 1928 — (Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
PAJAMA CHECKS, EXCLUDING 36½ INCHES, 72/80, 4.70 YARD ¹						
1926	—	25,057	25,720	30,384	—	—
First quarter . . .	—	4,889	5,221	10,383	1,073	6,498
Second quarter . . .	—	5,740	5,312	7,334	1,501	8,520
Third quarter . . .	—	6,901	7,812	8,656	590	9,364
Fourth quarter . . .	—	7,527	7,375	4,011	742	6,000
1927	—	39,868	38,511	34,343	—	—
First quarter . . .	—	10,588	10,902	8,030	428	3,128
Second quarter . . .	—	10,518	9,026	14,462	1,920	8,564
Third quarter . . .	—	9,785	8,695	4,824	2,010	3,693
Fourth quarter . . .	—	8,977	8,888	7,027	2,099	1,832
1928	—	25,879	24,710	23,800	—	—
First quarter . . .	—	7,039	7,011	6,184	2,127	1,005
Second quarter . . .	—	5,650	6,311	7,370	1,466	2,064
Third quarter . . .	—	5,689	6,397	6,019	758	1,686
Fourth quarter . . .	—	7,501	4,991	4,227	3,268	922
PLAIDS, 4.50 AND LIGHTER ²						
1926	689	9,619	7,789	7,558	—	—
First quarter . . .	680	2,528	1,374	1,070	3,226	411
Second quarter . . .	456	1,464	357	633	4,333	687
Third quarter . . .	832	2,819	4,173	5,043	2,979	1,557
Fourth quarter . . .	788	2,808	1,885	812	3,902	484
1927	682	10,367	11,656	12,279	—	—
First quarter . . .	527	1,818	2,176	3,291	3,544	1,599
Second quarter . . .	378	1,408	2,150	5,319	2,802	4,768
Third quarter . . .	750	2,762	4,160	2,942	1,404	3,550
Fourth quarter . . .	1,073	4,379	3,170	727	2,613	1,107
1928	651	8,127	7,656	8,895	—	—
First quarter . . .	595	2,119	1,279	1,193	3,453	1,021
Second quarter . . .	525	1,557	1,617	3,845	3,393	3,249
Third quarter . . .	798	2,210	3,019	1,580	2,584	1,810
Fourth quarter . . .	686	2,241	1,741	2,277	3,084	2,346

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926, 1927 and 1928 — (Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
PRINT CLOTH FANCIES ¹						
1926	7,010	62,930	61,996	68,605	—	—
First quarter . . .	7,010	15,732	15,738	17,576	2,269	11,620
Second quarter . . .	6,932	15,626	14,719	16,117	3,176	13,018
Third quarter . . .	6,794	15,335	15,345	14,129	3,166	11,802
Fourth quarter . . .	7,305	16,237	16,194	20,783	3,209	16,391
1927	9,979	99,933	99,273	97,444	—	—
First quarter . . .	8,362	20,050	22,227	24,313	1,032	18,477
Second quarter . . .	8,750	21,505	20,970	23,298	1,567	20,805
Third quarter . . .	11,635	29,046	26,688	29,230	3,925	23,347
Fourth quarter . . .	11,170	29,332	29,388	20,603	3,869	14,562
1928	9,097	97,089	97,198	102,959	—	—
First quarter . . .	9,253	22,317	22,003	22,647	4,183	15,206
Second quarter . . .	9,001	24,002	22,835	20,586	5,350	12,957
Third quarter . . .	7,871	21,484	22,412	29,162	4,422	19,707
Fourth quarter . . .	10,263	29,286	29,948	30,564	3,760	20,323
PRINT CLOTHS, NARROWER THAN 36 INCHES — 27 INCHES, 64/60, 7.60 YARD ¹						
1926	4,030	53,692	51,924	50,985	—	—
First quarter . . .	3,906	13,832	12,839	11,789	5,753	3,127
Second quarter . . .	4,328	14,444	13,678	11,909	6,519	1,358
Third quarter . . .	4,064	12,522	14,963	15,212	4,078	1,607
Fourth quarter . . .	3,823	12,894	10,444	12,075	6,528	3,238
1927	3,814	56,717	60,216	58,990	—	—
First quarter . . .	3,639	13,377	19,014	21,427	891	5,651
Second quarter . . .	3,466	12,163	12,633	13,476	421	6,494
Third quarter . . .	4,007	15,581	15,631	16,704	371	7,567
Fourth quarter . . .	4,144	15,596	12,938	7,383	3,029	2,012
1928	2,732	40,776	42,188	46,977	—	—
First quarter . . .	2,632	8,787	9,680	9,831	2,136	2,163
Second quarter . . .	2,437	9,328	11,224	12,875	240	3,814
Third quarter . . .	2,351	8,948	8,771	13,342	417	8,385
Fourth quarter . . .	3,508	13,713	12,513	10,929	1,617	6,801

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926, 1927 and 1928 — (Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
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PRINT CLOTHS, NARROWER THAN 36 INCHES — EXCLUDING 27 INCHES, 64/60, 7.60 YARD¹

1926	2,876	42,605	38,037	46,587	—	—
First quarter . . .	3,946	15,437	14,252	12,223	8,541	1,800
Second quarter . . .	3,014	10,642	12,574	12,142	6,609	1,368
Third quarter . . .	2,132	7,380	12,294	13,063	1,695	2,137
Fourth quarter . . .	2,415	9,146	8,917	9,159	1,924	2,379
1927	5,600	84,037	74,908	83,382	—	—
First quarter . . .	3,030	11,964	11,719	15,785	2,169	6,445
Second quarter . . .	2,958	11,677	10,996	10,243	2,850	5,692
Third quarter . . .	6,024	22,066	20,392	34,640	4,524	19,940
Fourth quarter . . .	10,390	38,330	31,801	22,714	11,053	10,853
1928	6,992	108,250	109,502	109,835	—	—
First quarter . . .	9,523	33,862	32,228	26,928	12,687	5,553
Second quarter . . .	6,924	27,088	24,453	35,884	15,322	16,984
Third quarter . . .	5,626	22,644	29,747	23,778	8,219	11,015
Fourth quarter . . .	5,895	24,656	23,074	23,245	9,801	11,186

PRINT CLOTHS, 36 INCHES AND WIDER — 38½ INCHES, 64/60, 5.35 YARD¹

1926	—	240,717	240,800	245,501	—	—
First quarter . . .	—	65,388	63,040	53,526	8,990	20,780
Second quarter . . .	—	55,338	54,800	42,713	9,528	8,693
Third quarter . . .	—	59,123	64,699	81,218	3,952	25,212
Fourth quarter . . .	—	60,868	58,261	68,044	6,559	34,995
1927	19,213	274,387	276,679	272,894	—	—
First quarter . . .	19,793	70,735	72,348	72,339	4,946	34,986
Second quarter . . .	16,866	60,131	61,261	56,939	3,816	30,664
Third quarter . . .	17,714	63,284	64,578	68,285	2,522	34,371
Fourth quarter . . .	22,479	80,237	78,492	75,331	4,267	31,210
1928	18,307	299,504	293,878	285,577	—	—
First quarter . . .	21,446	82,228	78,529	57,670	7,966	10,351
Second quarter . . .	19,936	80,500	67,649	70,662	20,817	13,364
Third quarter . . .	15,604	65,887	67,412	79,923	19,292	25,875
Fourth quarter . . .	16,241	70,889	80,288	77,322	9,893	22,909

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926, 1927 and 1928 — (Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
PRINT CLOTHS, 36 INCHES AND WIDER — 39 INCHES, 68/72, 4.75 YARD ¹						
1926	—	126,278	119,244	117,207	—	—
First quarter . . .	—	38,758	33,982	26,253	5,448	7,167
Second quarter . . .	—	30,922	22,832	17,091	13,538	1,426
Third quarter . . .	—	27,432	30,678	38,887	10,292	9,635
Fourth quarter . . .	—	29,166	31,752	34,976	7,706	12,859
1927	13,061	143,457	146,507	143,797	—	—
First quarter . . .	10,429	27,972	35,193	38,478	485	16,144
Second quarter . . .	9,751	25,704	25,076	28,144	1,113	19,212
Third quarter . . .	14,500	40,165	40,295	38,870	983	17,787
Fourth quarter . . .	17,566	49,616	45,943	38,305	4,656	10,149
1928	13,828	193,533	191,097	194,515	—	—
First quarter . . .	14,707	47,496	44,179	43,194	7,973	9,164
Second quarter . . .	13,731	46,220	48,262	47,736	5,931	8,638
Third quarter . . .	11,216	39,684	43,368	51,060	2,247	16,330
Fourth quarter . . .	15,660	60,133	55,288	52,525	7,092	13,567
PRINT CLOTHS, 36 INCHES AND WIDER, EXCLUDING 38½ INCHES, 64/60, 5.35 YARD, AND 39 INCHES, 68/72, 4.75 YARD ¹						
1926	—	317,852	309,605	315,163	—	—
First quarter . . .	—	81,079	79,967	67,349	9,214	15,724
Second quarter . . .	—	79,195	59,249	51,632	29,160	8,107
Third quarter . . .	—	78,747	93,536	113,276	14,371	27,847
Fourth quarter . . .	—	78,831	76,853	82,906	16,349	33,900
1927	27,075	430,571	415,471	446,885	—	—
First quarter . . .	19,651	77,782	89,108	96,327	5,023	41,119
Second quarter . . .	22,000	87,428	82,075	87,669	10,376	46,713
Third quarter . . .	29,589	116,589	106,897	134,535	20,068	74,351
Fourth quarter . . .	37,061	148,772	137,391	128,354	31,449	65,314
1928	30,925	554,757	547,886	546,906	—	—
First quarter . . .	31,357	135,784	138,697	123,228	28,536	49,845
Second quarter . . .	31,573	142,223	129,514	116,426	41,245	36,757
Third quarter . . .	27,589	124,810	129,673	149,150	36,382	56,234
Fourth quarter . . .	33,183	151,940	150,002	158,102	38,320	64,334

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926, 1927 and 1928 — (Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
HEAVY WARP SATEENS ²						
1926	1,070	14,070	14,943	15,262	—	—
First quarter . . .	1,243	3,854	3,946	3,555	1,279	792
Second quarter . . .	839	2,486	2,256	2,094	1,509	630
Third quarter . . .	830	2,637	3,875	5,273	271	2,028
Fourth quarter . . .	1,370	5,093	4,866	4,340	498	1,502
1927	1,443	20,040	19,146	19,838	—	—
First quarter . . .	1,720	6,127	5,976	6,426	649	1,952
Second quarter . . .	1,521	5,268	4,953	5,605	964	2,604
Third quarter . . .	1,251	4,029	4,070	3,005	923	1,539
Fourth quarter . . .	1,282	4,616	4,147	4,802	1,392	2,194
1928	925	13,647	13,878	12,978	—	—
First quarter . . .	1,172	4,540	4,459	3,402	1,473	1,137
Second quarter . . .	962	3,539	2,615	2,273	2,397	795
Third quarter . . .	652	2,054	2,449	2,819	2,002	1,165
Fourth quarter . . .	916	3,514	4,355	4,484	1,161	1,294
SATEENS, WIDER THAN 40 INCHES ²						
1926	—	17,719	15,303	12,755	—	—
First quarter . . .	—	6,630	5,629	6,491	1,119	6,851
Second quarter . . .	—	4,239	2,609	1,188	2,749	5,430
Third quarter . . .	—	3,348	3,348	3,006	2,749	5,088
Fourth quarter . . .	—	3,502	3,717	2,070	2,534	3,441
1927	—	11,782	12,769	11,254	—	—
First quarter . . .	—	3,791	3,996	2,846	2,329	2,291
Second quarter . . .	—	2,624	2,828	2,692	2,125	2,155
Third quarter . . .	—	2,519	3,381	3,730	1,263	2,504
Fourth quarter . . .	—	2,848	2,564	1,986	1,547	1,926
1928	1,252	12,292	13,345	15,109	—	—
First quarter . . .	995	2,261	2,575	2,248	1,233	1,599
Second quarter . . .	734	1,595	2,575	2,550	253	1,574
Third quarter . . .	1,340	3,017	3,094	5,433	176	3,913
Fourth quarter . . .	1,940	5,419	5,101	4,878	494	3,690

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926, 1927 and 1928 — (Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
SHEETINGS, WIDER THAN 40 INCHES ²						
1926	—	27,930	24,962	23,750	—	—
First quarter . . .	—	6,983	7,768	5,969	1,126	2,947
Second quarter . . .	—	7,213	5,380	4,096	2,959	1,663
Third quarter . . .	—	6,701	5,560	5,694	4,100	1,797
Fourth quarter . . .	—	7,033	6,254	7,991	4,879	3,534
1927	—	31,620	33,021	35,596	—	—
First quarter . . .	—	7,430	8,983	11,196	3,326	5,747
Second quarter . . .	—	8,160	8,246	9,036	3,240	6,537
Third quarter . . .	—	8,553	8,331	6,140	3,462	4,346
Fourth quarter . . .	—	7,477	7,461	9,224	3,478	6,109
1928	3,189	42,355	43,224	46,711	—	—
First quarter . . .	3,027	9,545	10,610	9,378	2,413	4,877
Second quarter . . .	3,121	10,628	9,320	8,525	3,721	4,082
Third quarter . . .	3,137	9,240	9,661	13,766	3,300	8,187
Fourth quarter . . .	3,473	12,942	13,633	15,042	2,609	9,596
SHEETINGS, 40 INCHES AND NARROWER, CLASS A (YARN NOS. UP TO 15s INCLUSIVE) 40 INCHES, 48/48, 2.85 YARD ²						
1926	2,085	31,991	33,598	34,034	—	—
First quarter . . .	1,899	7,264	8,875	7,840	315	2,842
Second quarter . . .	2,538	9,739	8,184	6,193	1,870	851
Third quarter . . .	2,037	7,850	8,373	9,836	1,347	2,314
Fourth quarter . . .	1,867	7,138	8,166	10,165	319	4,313
1927	2,894	49,319	47,452	47,015	—	—
First quarter . . .	3,063	12,434	12,341	15,558	412	7,530
Second quarter . . .	2,955	12,867	12,039	9,218	1,240	4,709
Third quarter . . .	2,569	11,511	11,552	11,813	1,199	4,970
Fourth quarter . . .	2,990	12,507	11,520	10,426	2,186	3,876
1928	2,561	43,418	44,287	46,065	—	—
First quarter . . .	2,721	10,529	11,272	11,390	1,443	3,994
Second quarter . . .	2,937	13,254	12,315	12,281	2,382	3,960
Third quarter . . .	2,078	9,217	9,569	9,451	2,030	3,842
Fourth quarter . . .	2,510	10,418	11,131	12,943	1,317	5,654

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926, 1927 and 1928 — (Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
SHEETINGS, 40 INCHES AND NARROWER, CLASS A (YARN NOS. UP TO 15S INCLUSIVE) EX- CLUDING 40 INCHES, 48/48, 2.85 YARD ²						
1926	3,284	52,225	50,825	49,716	—	—
First quarter . . .	2,970	12,765	14,648	13,106	4,981	2,056
Second quarter . . .	3,553	13,181	9,924	9,254	8,238	1,386
Third quarter . . .	3,141	12,277	14,276	16,053	6,239	3,163
Fourth quarter . . .	3,474	14,002	11,977	11,303	8,264	2,489
1927	3,445	56,711	57,046	59,448	—	—
First quarter . . .	2,874	12,099	16,421	17,686	3,942	3,754
Second quarter . . .	2,940	12,119	13,539	15,228	2,522	5,443
Third quarter . . .	3,713	15,553	14,902	14,146	3,173	4,687
Fourth quarter . . .	4,253	16,940	12,184	12,388	7,929	4,891
1928	4,813	78,779	75,406	77,970	—	—
First quarter . . .	5,140	18,657	16,158	17,163	10,428	5,896
Second quarter . . .	5,275	20,764	18,689	18,782	12,503	5,989
Third quarter . . .	3,738	16,259	16,615	19,254	12,147	8,628
Fourth quarter . . .	5,098	23,099	23,944	22,771	11,302	7,455
SHEETINGS, 40 INCHES AND NARROWER, CLASS B (YARN NOS. 16S TO 21S INCLUSIVE) 36 TO 37 INCHES, 48/48, 4.00 YARD ²						
1926	4,174	64,149	62,148	65,624	—	—
First quarter . . .	3,638	15,483	15,111	15,222	3,276	3,030
Second quarter . . .	3,198	10,780	11,135	13,568	2,921	5,463
Third quarter . . .	5,051	19,470	20,756	22,012	1,635	6,719
Fourth quarter . . .	4,808	18,416	15,146	14,822	4,905	6,395
1927	4,293	75,112	70,548	68,240	—	—
First quarter . . .	4,248	17,618	20,740	22,998	1,783	8,653
Second quarter . . .	4,529	20,537	20,172	22,304	2,148	10,785
Third quarter . . .	4,319	19,276	18,897	14,373	2,527	6,261
Fourth quarter . . .	4,078	17,681	10,739	8,565	9,469	4,087
1928	3,302	56,144	58,171	61,201	—	—
First quarter . . .	3,417	13,454	11,923	15,607	11,000	7,771
Second quarter . . .	2,744	10,847	18,531	18,372	3,316	7,612
Third quarter . . .	2,867	12,688	12,468	11,390	3,536	6,534
Fourth quarter . . .	4,179	19,155	15,249	15,832	7,442	7,117

**Production, Shipments, Sales, Stocks and Orders of Certain
Standard Cloths, 1926, 1927 and 1928 — (Continued)**

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
SHEETINGS, 40 INCHES AND NARROWER, CLASS B (YARN NOS. 16S TO 21S INCLUSIVE) EXCLUDING 36 TO 37 INCHES, 4S/4S, 4.00 YARD ²						
1926	4,404	79,435	76,211	77,209	—	—
First quarter	4,828	23,296	22,122	19,588	3,471	3,333
Second quarter	4,106	18,821	17,207	15,998	5,085	2,124
Third quarter	3,495	14,088	17,227	22,072	1,946	6,969
Fourth quarter	5,186	23,230	19,655	19,551	5,521	6,865
1927	4,950	95,588	89,673	93,102	—	—
First quarter	5,161	25,169	26,795	29,749	3,895	9,819
Second quarter	4,582	22,350	22,903	25,694	3,342	12,610
Third quarter	4,746	22,500	22,157	18,027	3,685	8,480
Fourth quarter	5,310	25,569	17,818	19,632	11,436	10,294
1928	5,798	109,286	110,186	111,667	—	—
First quarter	5,717	27,429	29,815	31,475	9,050	11,954
Second quarter	6,730	30,776	31,735	29,061	8,091	9,280
Third quarter	5,280	24,071	19,573	19,421	12,589	9,128
Fourth quarter	5,464	27,010	29,063	31,710	10,536	11,775
SHEETINGS, 40 INCHES AND NARROWER, CLASS C (YARN NOS. ABOVE 21S), 36 INCHES, 44/40, 44/44, 40/40, 6.05 TO 6.15 YARD ²						
1926	4,981	105,004	110,951	118,523	—	—
First quarter	3,177	17,469	26,118	35,624	4,436	19,750
Second quarter	5,189	27,173	30,412	25,379	1,197	14,717
Third quarter	6,463	33,552	30,016	26,938	4,733	11,639
Fourth quarter	5,097	26,810	24,405	30,582	7,138	17,816
1927	5,018	105,701	104,677	94,641	—	—
First quarter	4,645	24,541	29,380	34,042	2,299	22,478
Second quarter	5,202	28,476	28,363	22,470	2,412	16,585
Third quarter	5,512	29,008	28,104	24,159	3,316	12,640
Fourth quarter	4,713	23,676	18,830	13,970	8,162	7,780
1928	4,335	103,015	101,958	101,869	—	—
First quarter	3,935	21,034	21,228	28,079	7,968	14,631
Second quarter	4,646	27,527	27,065	22,186	8,430	9,752
Third quarter	4,223	25,550	24,282	27,343	9,698	12,813
Fourth quarter	4,535	28,904	29,383	24,261	9,219	7,691

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926, 1927 and 1928 — (Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
SHEETINGS, 40 INCHES AND NARROWER, CLASS C (YARN NOS. ABOVE 21s), EXCLUDING 36 INCHES, 44/40, 44/44, 40/40, 6.05 TO 6.15 YARD²						
1926	17,637	303,505	290,884	289,264	—	—
First quarter . . .	17,124	73,059	80,908	82,294	4,673	20,316
Second quarter . . .	17,687	77,727	68,900	60,601	13,500	12,017
Third quarter . . .	17,572	72,190	75,538	88,946	10,152	25,425
Fourth quarter . . .	18,164	80,529	65,538	57,423	25,143	17,310
1927	18,371	314,915	308,078	331,190	—	—
First quarter . . .	17,810	77,722	91,152	106,322	11,713	32,480
Second quarter . . .	17,634	75,219	74,913	85,431	12,019	42,998
Third quarter . . .	17,563	75,851	78,956	68,310	8,914	32,352
Fourth quarter . . .	20,479	86,123	63,057	71,127	31,980	40,422
1928	19,457	355,582	334,331	337,559	—	—
First quarter . . .	21,202	94,168	85,238	72,616	40,910	27,800
Second quarter . . .	20,945	93,109	80,503	82,493	53,516	29,790
Third quarter . . .	16,314	76,972	75,750	80,544	54,738	34,584
Fourth quarter . . .	19,368	91,333	92,840	101,906	53,231	43,650
WIDE BROWN SHEETINGS, 45 INCHES⁴						
1926	—	—	—	—	—	—
First quarter . . .	—	—	—	—	—	—
Second quarter . . .	—	—	—	—	—	—
Third quarter . . .	—	—	—	—	—	—
Fourth quarter . . .	—	—	—	—	—	—
1927	—	—	—	—	—	—
First quarter . . .	—	1,097	1,446	1,509	679	282
Second quarter . . .	—	1,080	944	929	815	267
Third quarter . . .	—	145	220	233	740	280
Fourth quarter . . .	—	7,289	7,698	6,404	2,135	207
1928	—	—	—	—	—	—
First quarter . . .	—	3,188	132	514	5,191	589
Second quarter . . .	—	2,186	1,740	1,889	5,637	738
Third quarter . . .	—	2,019	3,037	3,085	4,619	786
Fourth quarter . . .	—	2,854	3,606	3,780	3,867	960

**Production, Shipments, Sales, Stocks and Orders of Certain
Standard Cloths, 1926, 1927 and 1928 — (Continued)**

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
WIDE BROWN SHEETINGS, 72 INCHES ¹						
1926	—	—	—	—	—	—
First quarter . . .	—	—	—	—	—	—
Second quarter . . .	—	—	—	—	—	—
Third quarter . . .	—	—	—	—	—	—
Fourth quarter . . .	—	—	—	—	—	—
1927	—	—	—	—	—	—
First quarter . . .	—	2,212	2,134	2,758	3,825	1,146
Second quarter . . .	—	2,101	2,828	3,157	3,098	1,475
Third quarter . . .	—	427	578	569	2,947	1,466
Fourth quarter . . .	—	7,940	9,369	7,807	1,857	376
1928	—	—	—	—	—	—
First quarter . . .	—	3,549	974	1,733	4,432	1,135
Second quarter . . .	—	3,168	3,295	3,538	4,305	1,378
Third quarter . . .	—	3,136	4,368	4,907	3,073	1,917
Fourth quarter . . .	—	3,374	3,930	3,608	2,517	1,595
WIDE BROWN SHEETINGS, 81 INCHES ¹						
1926	—	—	—	—	—	—
First quarter . . .	—	—	—	—	—	—
Second quarter . . .	—	—	—	—	—	—
Third quarter . . .	—	—	—	—	—	—
Fourth quarter . . .	—	—	—	—	—	—
1927	—	—	—	—	—	—
First quarter . . .	—	4,925	5,306	5,998	5,994	1,831
Second quarter . . .	—	4,871	4,654	4,947	6,211	2,124
Third quarter . . .	—	987	1,148	1,058	6,050	2,034
Fourth quarter . . .	—	13,228	16,645	14,654	3,809	764
1928	—	—	—	—	—	—
First quarter . . .	—	6,284	1,511	2,383	8,582	1,636
Second quarter . . .	—	5,299	5,299	5,291	8,582	1,628
Third quarter . . .	—	4,860	6,394	6,438	7,048	1,672
Fourth quarter . . .	—	5,819	5,905	6,127	6,962	1,894

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926, 1927 and 1928 — (Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
WIDE BROWN SHEETINGS, 90 INCHES ⁴						
1926	—	—	—	—	—	—
First quarter . . .	—	—	—	—	—	—
Second quarter . . .	—	—	—	—	—	—
Third quarter . . .	—	—	—	—	—	—
Fourth quarter . . .	—	—	—	—	—	—
1927	—	—	—	—	—	—
First quarter . . .	—	7,798	10,218	10,807	5,411	2,252
Second quarter . . .	—	8,550	8,041	8,860	5,920	3,071
Third quarter . . .	—	1,711	1,985	2,304	5,646	3,390
Fourth quarter . . .	—	29,526	33,216	28,357	6,064	987
1928	—	—	—	—	—	—
First quarter . . .	—	12,447	2,873	3,913	15,638	2,027
Second quarter . . .	—	11,242	10,066	11,208	16,814	3,168
Third quarter . . .	—	10,358	13,763	13,329	13,409	2,734
Fourth quarter . . .	—	12,626	13,377	14,549	12,658	3,906

WIDE BROWN SHEETINGS, EXCLUDING 45 INCHES, 72 INCHES, 81 INCHES AND 90 INCHES⁴

1926	—	—	—	—	—	—
First quarter . . .	—	—	—	—	—	—
Second quarter . . .	—	—	—	—	—	—
Third quarter . . .	—	—	—	—	—	—
Fourth quarter . . .	—	—	—	—	—	—
1927	—	—	—	—	—	—
First quarter . . .	—	4,788	4,488	5,451	7,094	6,904
Second quarter . . .	—	4,803	4,399	7,989	7,498	10,494
Third quarter . . .	—	949	1,058	974	7,389	10,410
Fourth quarter . . .	—	17,177	20,743	8,910	6,214	4,331
1928	—	—	—	—	—	—
First quarter . . .	—	7,926	153	3,400	13,987	7,578
Second quarter . . .	—	7,329	7,716	9,932	13,600	9,794
Third quarter . . .	—	6,603	7,337	5,368	12,866	7,825
Fourth quarter . . .	—	6,357	7,701	8,473	11,522	8,597

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926, 1927 and 1928 — (Continued)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
BED TICKINGS, CLASS A, 32 INCHES, 2.00 YARD ²						
1926	—	—	—	—	—	—
First quarter . . .	—	—	—	—	—	—
Second quarter . . .	—	—	—	—	—	—
Third quarter . . .	—	—	—	—	—	—
Fourth quarter . . .	—	—	—	—	—	—
1927	—	11,251	11,087	11,552	—	—
First quarter . . .	—	3,065	3,210	3,704	940	832
Second quarter . . .	—	2,594	2,390	2,985	1,144	1,427
Third quarter . . .	—	2,559	3,169	2,837	534	1,095
Fourth quarter . . .	—	3,033	2,318	2,026	1,249	803
1928	—	8,373	7,610	8,380	—	—
First quarter . . .	—	3,185	1,867	1,502	2,567	438
Second quarter . . .	—	1,989	1,804	2,297	2,752	931
Third quarter . . .	—	1,318	1,772	1,286	2,298	445
Fourth quarter . . .	—	1,881	2,167	3,295	2,012	1,573
BED TICKINGS, EXCLUDING CLASS A, 32 INCHES, 2.00 YARD ²						
1926	—	—	—	—	—	—
First quarter . . .	—	—	—	—	—	—
Second quarter . . .	—	—	—	—	—	—
Third quarter . . .	—	—	—	—	—	—
Fourth quarter . . .	—	—	—	—	—	—
1927	—	13,988	13,719	14,555	—	—
First quarter . . .	—	3,483	3,153	4,254	2,452	1,555
Second quarter . . .	—	3,347	3,602	4,372	2,197	2,325
Third quarter . . .	—	3,278	3,921	3,494	1,554	1,898
Fourth quarter . . .	—	3,880	3,043	2,435	2,391	1,290
1928	—	9,045	9,298	8,565	—	—
First quarter . . .	—	3,459	1,293	590	4,557	587
Second quarter . . .	—	2,418	2,315	2,646	4,660	918
Third quarter . . .	—	1,942	2,936	2,658	3,666	640
Fourth quarter . . .	—	1,226	2,754	2,671	2,138	557

Production, Shipments, Sales, Stocks and Orders of Certain Standard Cloths, 1926, 1927 and 1928 — (Concluded)

[Thousands of Yards]

	Average Looms Operating	Production	Shipments	Sales	Stock at End	Orders at End
FOUR-LEAF TWILLS ²						
1926	1,754	26,177	28,436	29,121	—	—
First quarter . . .	2,237	9,201	9,236	7,164	4,750	1,171
Second quarter . . .	1,790	6,217	5,256	4,669	5,711	584
Third quarter . . .	1,184	4,090	6,523	8,605	3,278	2,666
Fourth quarter . . .	1,805	6,669	7,421	8,683	2,526	3,928
1927	2,975	45,734	42,612	42,672	—	—
First quarter . . .	2,606	9,829	11,413	14,194	942	6,709
Second quarter . . .	2,904	11,482	11,358	11,961	1,066	7,312
Third quarter . . .	3,113	11,747	11,393	9,031	1,420	4,950
Fourth quarter . . .	3,277	12,676	8,448	7,486	5,648	3,988
1928	2,875	36,075	37,921	39,226	—	—
First quarter . . .	3,040	10,913	9,559	8,448	7,002	2,877
Second quarter . . .	2,670	9,203	9,573	9,005	6,632	2,309
Third quarter . . .	2,213	7,704	8,387	9,107	5,949	3,029
Fourth quarter . . .	2,377	8,255	10,402	12,666	3,802	5,293
POCKETING TWILLS ²						
1926	1,213	11,831	15,480	15,359	—	—
First quarter . . .	1,827	4,594	4,216	3,227	4,361	490
Second quarter . . .	945	2,249	3,375	3,584	3,235	699
Third quarter . . .	964	2,321	4,230	5,074	1,326	1,543
Fourth quarter . . .	1,115	2,667	3,659	3,474	334	1,358
1927	2,561	23,574	20,971	20,952	—	—
First quarter . . .	2,002	4,678	4,851	8,643	161	5,150
Second quarter . . .	3,131	7,055	6,744	6,585	472	4,991
Third quarter . . .	3,136	7,203	5,850	3,711	1,825	2,852
Fourth quarter . . .	1,976	4,638	3,526	2,013	2,937	1,339
1928	1,110	10,082	10,503	10,673	—	—
First quarter . . .	1,239	2,980	2,179	1,901	3,738	1,061
Second quarter . . .	1,206	2,772	3,463	3,207	3,047	805
Third quarter . . .	1,023	2,260	2,357	3,165	2,950	1,613
Fourth quarter . . .	972	2,070	2,504	2,400	2,516	1,509

¹ January 1 to August 20, 1927, compiled by The Association of Cotton Textile Merchants of New York, and thereafter by The Association of Cotton Textile Merchants of New York and The Cotton-Textile Institute, Inc. Quantity figures before and after that date are not comparable.

² Compiled by The Association of Cotton Textile Merchants of New York.

³ 1926 figures for gray cloths only.

⁴ January to July 23, 1927, collected by The Association of Cotton Textile Merchants of New York; thereafter by The Cotton-Textile Institute, Inc.

Production, Shipments, Sales, Stocks and Orders of Soft Yarns—All Numbers, Single and Ply (Class A)

[Based on 59 identical mills]

The Cotton-Textile Institute, Inc.

WEEKS ENDED, 1928		Spindles Operating (Average Number)	THOUSANDS OF POUNDS				
			Pro-duction	Ship-ments	Sales	Stock on Hand	Unfilled Orders
January	7	913,618	1,971	2,072	1,908	3,989	18,788
	14	965,296	2,146	1,574	992	4,561	18,206
	21	966,433	2,052	2,052	1,925	4,561	18,079
	28	959,929	2,025	2,130	1,759	4,456	17,708
February	4	958,950	2,046	2,096	2,772	4,406	18,904
	11	970,314	2,097	2,105	2,380	4,398	19,179
	18	953,412	2,024	2,092	1,869	4,330	18,956
	25	956,708	1,996	1,860	1,333	4,466	18,429
March	3	934,364	2,022	2,193	1,228	4,295	17,464
	10	934,844	2,010	1,799	1,528	4,506	17,193
	17	925,682	1,969	1,980	1,382	4,495	16,595
	24	935,470	1,979	1,862	1,873	4,612	16,606
April	31	899,736	1,875	2,080	1,901	4,407	16,427
	7	897,235	1,874	1,907	1,250	4,374	15,770
	14	908,551	1,760	1,653	1,779	4,481	15,896
	21	890,379	1,829	1,614	1,863	4,696	16,145
May	28	886,000	1,794	1,887	1,261	4,603	15,519
	5	898,640	1,833	1,981	1,340	4,455	14,878
	12	898,072	1,836	1,734	969	4,557	14,113
	19	906,086	1,849	1,678	1,329	4,728	13,761
June	26	890,611	1,817	1,903	1,338	4,642	13,199
	2	873,806	1,785	1,954	913	4,473	12,158
	9	881,232	1,743	1,623	1,444	4,593	11,979
	16	874,948	1,694	1,702	1,596	4,585	11,873
July	23	906,396	1,731	1,597	1,274	4,719	11,550
	30	857,749	1,765	2,226	1,298	4,258	10,622
	7	265,785	488	597	375	4,149	10,400
	14	861,228	1,726	1,641	1,377	4,234	10,136
August	21	849,975	1,744	1,820	955	4,158	9,271
	28	816,717	1,628	1,546	2,453	4,240	10,178
	4	800,804	1,467	1,659	1,622	4,048	10,141
	11	696,948	1,330	1,438	2,190	3,940	10,893
September	18	790,173	1,670	1,715	1,631	3,895	10,809
	25	770,386	1,605	1,619	1,784	3,881	10,974
	1	775,908	1,576	1,603	1,179	3,854	10,550
	8	743,666	1,528	1,529	1,769	3,853	10,790
October	15	810,658	1,548	1,560	2,505	3,841	11,735
	22	766,416	1,558	1,589	2,812	3,810	12,958
	29	772,928	1,681	1,871	2,682	3,620	13,769
	6	794,823	1,788	1,917	2,447	3,491	14,299
November	13	793,073	1,775	2,308	2,508	2,958	14,499
	20	820,405	1,831	1,872	2,471	2,917	15,098
	27	819,114	1,921	1,996	1,706	2,842	14,808
	3	848,556	1,958	2,114	1,850	2,686	14,544
December	10	861,573	1,969	1,917	2,345	2,738	14,972
	17	870,393	1,997	1,893	2,334	2,842	15,413
	24	864,529	1,958	1,838	4,629	2,962	18,204
	1	865,140	1,898	1,909	2,055	2,951	18,350
December	8	862,817	1,918	1,765	2,715	3,101	19,300
	15	860,475	1,896	1,754	1,823	3,246	19,369
	22	852,656	1,862	1,746	1,202	3,362	18,825
	29	417,804	549	817	668	3,094	18,676

Production, Shipments, Sales, Stocks and Orders of Hard Yarns — 18's and Coarser (Class B)

[Based on 58 identical mills]

The Cotton-Textile Institute, Inc.

WEEKS ENDED, 1928		Spindles Operating (Average Number)	THOUSANDS OF POUNDS				
			Pro- duction	Ship- ments	Sales	Stock on Hand	Unfilled Orders
January	7	396,510	1,395	1,371	1,558	4,234	12,332
	14	404,504	1,509	1,506	1,431	4,237	12,257
	21	407,146	1,451	1,387	1,102	4,301	11,972
	28	405,588	1,408	1,317	1,049	4,392	11,704
February	4	380,723	1,336	1,403	2,224	4,325	12,525
	11	390,750	1,443	1,443	1,408	4,325	12,490
	18	412,499	1,449	1,334	1,085	4,440	12,241
	25	396,227	1,436	1,372	987	4,504	11,856
March	3	380,874	1,372	1,356	812	4,520	11,312
	10	409,564	1,404	1,210	818	4,714	10,920
	17	390,743	1,389	1,411	1,258	4,692	10,767
	24	376,484	1,388	1,509	982	4,571	10,240
	31	379,535	1,406	1,475	973	4,502	9,738
April	7	379,181	1,357	1,358	947	4,501	9,327
	14	368,715	1,306	1,310	1,891	4,497	9,908
	21	367,525	1,319	1,546	1,199	4,270	9,561
	28	359,978	1,271	1,158	1,441	4,383	9,844
May	5	353,268	1,252	1,314	980	4,321	9,510
	12	356,229	1,271	1,388	862	4,204	8,984
	19	346,817	1,228	1,260	882	4,172	8,606
	26	344,234	1,250	1,160	1,044	4,262	8,490
June	2	345,555	1,198	1,318	1,022	4,142	8,194
	9	346,483	1,238	1,164	1,165	4,216	8,195
	16	345,137	1,173	1,115	1,294	4,274	8,374
	23	346,105	1,240	1,114	1,489	4,400	8,749
	30	328,086	1,258	1,362	731	4,296	8,118
July	7	339,559	419	533	673	4,182	8,258
	14	309,795	1,035	879	630	4,338	8,009
	21	338,215	1,141	1,051	1,312	4,428	8,270
	28	337,947	1,184	1,173	1,506	4,439	8,603
August	4	326,600	1,149	1,150	589	4,438	8,042
	11	307,144	1,111	1,154	1,674	4,395	8,562
	18	333,492	1,198	1,115	2,219	4,478	9,666
	25	317,938	1,140	1,405	1,205	4,213	9,466
September	1	320,660	1,092	1,044	1,368	4,261	9,790
	8	320,305	1,142	1,310	1,209	4,093	9,689
	15	339,875	1,211	1,239	2,254	4,065	10,704
	22	341,627	1,327	1,421	2,821	3,971	12,104
	29	345,165	1,392	1,629	1,894	3,734	12,369
October	6	349,489	1,397	1,415	1,341	3,716	12,295
	13	348,884	1,410	1,439	1,522	3,687	12,378
	20	349,668	1,427	1,557	1,845	3,557	12,666
	27	345,986	1,418	1,396	2,210	3,579	13,480
November	3	338,228	1,450	1,492	1,790	3,537	13,778
	10	343,107	1,429	1,361	1,180	3,605	13,597
	17	342,764	1,412	1,341	1,756	3,676	14,012
	24	349,869	1,480	1,484	1,570	3,672	14,098
December	1	351,912	1,393	1,527	1,576	3,538	14,147
	8	349,924	1,440	1,599	1,176	3,379	13,724
	15	358,864	1,423	1,457	1,068	3,345	13,335
	22	361,241	1,453	1,255	892	3,543	12,972
	29	317,892	695	812	371	3,426	12,531

Production, Shipments, Sales, Stocks and Orders of Hard Yarns — 20's and Finer (Class C)

[Based on 70 identical mills]

The Cotton-Textile Institute, Inc.

WEEKS ENDED, 1928		Spindles Operating (Average Number)	THOUSANDS OF POUNDS				
			Pro- duction	Ship- ments	Sales	Stock on Hand	Unfilled Orders
January	7	903,393	1,251	1,175	1,507	4,656	9,350
	14	884,093	1,329	1,388	832	4,597	8,794
	21	877,846	1,231	1,222	1,187	4,606	8,759
	28	861,345	1,166	1,176	1,292	4,596	8,875
February	4	843,370	1,191	1,162	999	4,625	8,192
	11	872,695	1,203	1,102	1,897	4,726	8,987
	18	864,005	1,228	1,262	1,073	4,692	8,798
	25	860,437	1,193	1,244	618	4,641	8,172
March	3	830,797	1,152	1,243	945	4,550	7,874
	10	834,082	1,212	1,165	829	4,597	7,538
	17	832,048	1,164	1,192	1,161	4,569	7,507
	24	811,341	1,135	1,075	997	4,629	7,429
	31	817,381	1,121	1,184	620	4,566	6,865
April	7	817,522	1,079	1,130	1,124	4,515	6,859
	14	791,704	1,077	1,038	996	4,554	6,817
	21	756,815	1,048	1,111	796	4,491	6,502
	28	753,613	1,023	1,110	1,170	4,404	6,562
May	5	742,557	1,026	952	1,110	4,478	6,720
	12	747,125	1,018	1,052	881	4,444	6,549
	19	726,263	1,017	998	1,417	4,463	6,968
	26	714,242	961	901	728	4,523	6,795
June	2	688,349	897	1,111	501	4,309	6,185
	9	722,383	916	843	1,596	4,382	6,938
	16	675,489	905	951	1,269	4,336	7,256
	23	674,056	938	1,013	716	4,261	6,959
	30	670,758	934	1,210	946	3,985	6,695
July	7	301,863	401	395	489	3,991	6,789
	14	654,643	896	888	524	3,999	6,425
	21	645,110	915	1,186	766	3,728	6,005
	28	676,405	945	1,002	835	3,671	5,838
August	4	554,480	755	866	731	3,560	5,703
	11	624,377	887	963	687	3,484	5,427
	18	648,290	908	924	1,781	3,468	6,284
	25	627,688	826	814	1,134	3,480	6,604
September	1	623,813	878	992	1,094	3,366	6,706
	8	609,225	919	1,018	1,288	3,267	6,976
	15	606,223	948	1,112	1,577	3,103	7,441
	22	676,063	951	1,032	1,881	3,022	8,290
	29	712,801	1,088	1,216	1,624	2,894	8,698
October	6	710,146	1,115	1,427	2,204	2,582	9,475
	13	713,566	1,170	1,384	1,772	2,368	9,863
	20	713,994	1,170	1,228	1,984	2,310	10,619
	27	727,367	1,199	1,454	1,588	2,055	10,753
November	3	730,495	1,212	1,158	1,069	2,109	10,664
	10	754,726	1,237	1,334	1,738	2,012	11,068
	17	761,827	1,290	1,269	1,356	2,033	11,155
	24	704,865	1,283	1,382	2,677	1,934	12,450
December	1	780,488	1,252	1,337	2,140	1,849	13,253
	8	777,676	1,281	1,452	1,104	1,678	12,905
	15	781,233	1,305	1,224	1,288	1,759	12,969
	22	777,651	1,294	1,253	1,059	1,800	12,775
	29	586,386	498	614	250	1,684	12,411

United States Production of the Principal Cotton

Source: United States

Quantity for leading States that can be shown separately

	1923		
	Pounds	Square Yards	Value
Woven goods (over 12 inches in width), total	2,205,432,778	8,264,219,579	\$1,398,901,764 ²
Shirtings (all cotton)	67,443,808	262,539,219	49,352,227
North Carolina	19,752,415	61,350,157	12,723,245
South Carolina	7,763,326	37,199,662	5,816,641
Massachusetts	11,109,975	53,142,974	10,255,816
Rhode Island	1,628,775	7,068,476	2,066,907
Mississippi	6,571,245	24,109,894	3,762,774
Connecticut	2,571,573	11,949,789	2,024,792
All other States	18,046,499	67,718,267	12,702,052
Average single yarn-count, 40's and under	-1	-1	-1
Mississippi	-1	-1	-1
Massachusetts	-1	-1	-1
All other States	-1	-1	-1
Average single yarn-count, 41's and over	-1	-1	-1
Massachusetts	-1	-1	-1
All other States	-1	-1	-1
Shirtings, in chief value of cotton (rayon-striped)	17,471,454	78,685,447	22,983,127
Massachusetts	-1	-1	-1
North Carolina	-1	-1	-1
South Carolina	-1	-1	-1
All other States	-1	-1	-1
Average single yarn-count, 40's and under	-1	-1	-1
Massachusetts	-1	-1	-1
South Carolina	-1	-1	-1
All other States	-1	-1	-1
Average single yarn-count, 41's and over	-1	-1	-1
Massachusetts	-1	-1	-1
South Carolina	-1	-1	-1
All other States	-1	-1	-1
Shirtings in chief value of cotton (silk-striped)	-1	-1	-1
Average single yarn-count, 40's and under	-1	-1	-1
Average single yarn-count, 41's and over	-1	-1	-1
Fabrics (other than shirtings) in chief value of cotton, containing rayon	-1	-1	-1
Massachusetts	-1	-1	-1
North Carolina	-1	-1	-1
Rhode Island	-1	-1	-1
Pennsylvania	-1	-1	-1
Connecticut	-1	-1	-1
South Carolina	-1	-1	-1
Georgia	-1	-1	-1
All other States	-1	-1	-1

² Not reported.

Piece Goods; and Yarns for Sale, 1923, 1925 and 1927

Bureau of the Census

without disclosing the operations of individual establishments

1925			1927		
Pounds	Square Yards	Value	Pounds	Square Yards	Value
2,070,985,006	7,741,568,028	\$1,245,139,031 ²	2,433,709,519	8,980,414,774	\$1,183,760,651 ²
87,256,178	372,106,936	56,534,114	74,087,731	299,453,436	38,953,426
16,887,607	69,948,031	8,663,147	27,206,162	106,600,970	11,930,764
20,296,222	89,417,537	10,690,361	9,642,730	44,540,940	4,603,472
15,192,984	72,346,499	14,647,318	6,301,252	31,480,625	6,117,950
3,497,762	16,038,550	3,649,484	3,034,040	16,271,724	3,304,237
4,587,191	17,231,808	2,430,346	3,926,327	15,602,215	1,658,440
2,905,855	14,484,323	2,316,634	530,402	2,662,331	479,158
23,888,557	92,640,188	14,136,824	23,446,818	82,294,631	10,859,405
- 1	- 1	- 1	67,501,385	264,555,168	31,896,766
- 1	- 1	- 1	3,926,327	15,602,215	1,658,440
- 1	- 1	- 1	2,565,087	11,519,980	2,082,459
- 1	- 1	- 1	61,009,971	237,432,973	28,155,867
- 1	- 1	- 1	6,586,346	34,898,268	7,056,660
- 1	- 1	- 1	3,736,165	19,960,645	4,035,491
- 1	- 1	- 1	2,850,181	14,937,623	3,021,169
14,558,710	72,423,104	15,737,988	16,071,059	74,559,122	15,438,542
4,138,852	22,157,363	5,773,072	4,711,386	23,279,894	5,512,390
3,274,419	14,341,728	2,471,202	5,039,075	21,614,384	3,860,756
4,539,045	23,537,288	3,866,904	3,274,712	14,884,823	2,845,976
2,606,394	12,386,725	3,626,810	3,045,886	14,780,021	3,219,420
- 1	- 1	- 1	12,216,295	55,349,623	10,625,024
- 1	- 1	- 1	3,463,213	17,062,229	3,854,431
- 1	- 1	- 1	2,420,402	10,608,057	1,695,123
- 1	- 1	- 1	6,332,680	27,679,337	5,075,470
- 1	- 1	- 1	3,854,764	19,209,499	4,813,518
- 1	- 1	- 1	1,248,173	6,217,665	1,657,959
- 1	- 1	- 1	854,310	4,276,766	1,150,853
- 1	- 1	- 1	1,752,281	8,715,068	2,004,706
1,828,383	10,866,710	3,484,787	823,011	4,517,608	1,045,202
- 1	- 1	- 1	177,956	1,157,996	268,512
- 1	- 1	- 1	645,055	3,359,612	776,690
- 1	- 1	- 1	32,795,542	163,824,938	41,644,800
- 1	- 1	- 1	14,394,466	80,650,864	17,614,423
- 1	- 1	- 1	6,217,587	27,656,284	5,642,566
- 1	- 1	- 1	3,504,659	15,527,191	6,004,986
- 1	- 1	- 1	1,876,679	9,372,437	4,732,241
- 1	- 1	- 1	957,559	8,655,369	2,030,248
- 1	- 1	- 1	1,703,311	6,550,147	1,372,583
- 1	- 1	- 1	502,611	2,271,825	431,705
- 1	- 1	- 1	3,638,670	13,140,821	3,816,048

² In addition, cotton goods to the following values were reported as secondary products by establishments classified in other industries: for 1923, \$7,223,375; for 1925, \$5,401,533; for 1927, \$9,914,973.

United States Production of the Principal Cotton Piece

Source: United States

Quantity for leading States that can be shown separately

	1923		
	Pounds	Square Yards	Value
Woven Goods — <i>continued</i>			
Fabrics (other than shirtings) in chief value of cotton, containing rayon — <i>continued</i>			
Average single yarn-count, 40's and under	— 1	— 1	— 1
Massachusetts	— 1	— 1	— 1
Rhode Island	— 1	— 1	— 1
Georgia	— 1	— 1	— 1
All other States	— 1	— 1	— 1
Average single yarn-count, 41's and over	— 1	— 1	— 1
Massachusetts	— 1	— 1	— 1
Rhode Island	— 1	— 1	— 1
All other States	— 1	— 1	— 1
Fabrics (other than shirtings), in chief value of cotton, containing silk	— 1	— 1	— 1
Massachusetts	— 1	— 1	— 1
All other States	— 1	— 1	— 1
Average single yarn-count, 40's and under	— 1	— 1	— 1
Massachusetts	— 1	— 1	— 1
All other States	— 1	— 1	— 1
Average single yarn-count, 41's and over	— 1	— 1	— 1
Massachusetts	— 1	— 1	— 1
All other States	— 1	— 1	— 1
Fabrics entirely or in chief value of rayon	— 1	— 1	— 1
Massachusetts	— 1	— 1	— 1
North Carolina	— 1	— 1	— 1
Connecticut	— 1	— 1	— 1
Rhode Island	— 1	— 1	— 1
Pennsylvania	— 1	— 1	— 1
All other States	— 1	— 1	— 1
Other woven fabrics (over 12 inches in width)	147,296,753	698,186,752	\$136,136,534
Massachusetts	— 1	— 1	— 1
Georgia	— 1	— 1	— 1
South Carolina	— 1	— 1	— 1
North Carolina	— 1	— 1	— 1
Rhode Island	— 1	— 1	— 1
Connecticut	— 1	— 1	— 1
Pennsylvania	— 1	— 1	— 1
All other States	— 1	— 1	— 1
Average single yarn-count, 40's and under	— 1	— 1	— 1
Massachusetts	— 1	— 1	— 1
Georgia	— 1	— 1	— 1
North Carolina	— 1	— 1	— 1
South Carolina	— 1	— 1	— 1
Rhode Island	— 1	— 1	— 1
All other States	— 1	— 1	— 1

¹ Not reported.

Goods; and Yarns for Sale, 1923, 1925 and 1927—(Continued)

Bureau of the Census

without disclosing the operations of individual establishments

1925			1927		
Pounds	Square Yards	Value	Pounds	Square Yards	Value
-	-	-	19,286,378	90,126,874	\$22,566,173
-	-	-	5,195,482	33,340,748	7,949,135
-	-	-	2,591,363	9,328,317	4,019,178
-	-	-	502,611	2,271,825	431,705
-	-	-	10,996,922	45,185,984	10,166,155
-	-	-	13,509,164	73,698,064	19,078,627
-	-	-	9,198,984	47,310,116	9,665,288
-	-	-	913,296	6,198,874	1,985,808
-	-	-	3,396,884	20,189,074	7,427,531
-	-	-	-	-	-
-	-	-	4,380,716	31,724,227	8,124,348
-	-	-	3,272,499	21,825,966	5,695,115
-	-	-	1,108,217	9,898,261	2,429,233
-	-	-	824,331	3,144,725	1,348,121
-	-	-	823,673	3,141,064	1,345,703
-	-	-	658	3,061	2,418
-	-	-	3,556,385	28,579,502	6,776,227
-	-	-	2,448,826	18,684,902	4,349,412
-	-	-	1,107,559	9,894,600	2,426,815
-	-	-	-	-	-
-	-	-	20,509,177	117,052,733	36,300,172
-	-	-	5,819,341	32,812,625	9,446,398
-	-	-	2,932,275	15,887,572	5,696,193
-	-	-	2,102,796	13,859,941	4,610,186
-	-	-	2,822,778	11,768,708	4,843,719
-	-	-	342,307	1,001,421	1,739,644
-	-	-	6,489,680	41,722,466	9,964,032
148,275,314	750,787,369	\$155,201,900	73,972,773	401,990,620	57,103,824
-	-	-	21,018,012	181,748,320	23,635,379
-	-	-	14,200,041	44,103,456	4,931,896
-	-	-	4,412,221	35,784,324	4,202,368
-	-	-	9,101,357	31,979,594	4,473,976
-	-	-	5,133,288	30,621,231	6,542,026
-	-	-	3,083,423	28,842,860	3,744,469
-	-	-	1,393,090	2,045,329	2,599,624
-	-	-	14,631,311	46,865,506	6,974,086
-	-	-	54,188,326	272,959,308	30,758,064
-	-	-	11,003,500	110,417,970	8,916,723
-	-	-	14,200,041	44,103,456	4,931,896
-	-	-	7,661,766	27,544,468	3,652,963
-	-	-	3,546,174	24,834,482	1,758,287
-	-	-	1,412,018	3,709,016	1,369,812
-	-	-	16,364,827	62,349,916	10,128,383

United States Production of the Principal Cotton Piece

Source: United States

Quantity for leading States that can be shown separately

	1923		
	Pounds	Square Yards	Value
Woven Goods — <i>continued</i>			
Other woven fabrics (over 12 inches in width)			
— <i>continued</i>			
Average single yarn-count, 41's and over	— 1	— 1	— 1
Massachusetts	— 1	— 1	— 1
Rhode Island	— 1	— 1	— 1
South Carolina	— 1	— 1	— 1
North Carolina	— 1	— 1	— 1
All other States	— 1	— 1	— 1
Reps, poplins and broadcloths	— 1	— 1	— 1
South Carolina	— 1	— 1	— 1
Massachusetts	— 1	— 1	— 1
Connecticut	— 1	— 1	— 1
North Carolina	— 1	— 1	— 1
All other States	— 1	— 1	— 1
Average single yarn-count, 40's and under	— 1	— 1	— 1
South Carolina	— 1	— 1	— 1
Massachusetts	— 1	— 1	— 1
North Carolina	— 1	— 1	— 1
All other States	— 1	— 1	— 1
Average single yarn-count, 41's and over	— 1	— 1	— 1
Massachusetts	— 1	— 1	— 1
South Carolina	— 1	— 1	— 1
North Carolina	— 1	— 1	— 1
All other States	— 1	— 1	— 1
Lawns, nainsooks, cambrics and similar muslins	56,965,110	367,209,215	\$57,277,453
Massachusetts	19,716,271	157,246,005	26,476,399
Rhode Island	6,319,927	45,503,946	8,051,149
Connecticut	11,441,885	51,613,296	10,047,615
All other States	19,487,027	112,845,968	12,702,290
Average single yarn-count, 40's and under	— 1	— 1	— 1
Massachusetts	— 1	— 1	— 1
All other States	— 1	— 1	— 1
Average single yarn-count, 41's and over	— 1	— 1	— 1
Massachusetts	— 1	— 1	— 1
All other States	— 1	— 1	— 1
Voiles	16,153,117	134,708,905	19,188,992
Massachusetts	14,336,791	119,933,525	16,671,225
Rhode Island	577,218	5,372,129	846,553
South Carolina	— 1	— 1	— 1
All other States	1,239,108	9,403,251	1,671,214
Average single yarn-count, 40's and under	— 1	— 1	— 1
Massachusetts	— 1	— 1	— 1
All other States	— 1	— 1	— 1
Average single yarn-count, 41's and over	— 1	— 1	— 1
Massachusetts	— 1	— 1	— 1
All other States	— 1	— 1	— 1

1 Not reported.

Goods; and Yarns for Sale, 1923, 1925 and 1927 — (Continued)

Bureau of the Census

without disclosing the operations of individual establishments

1925			1927		
Pounds	Square Yards	Value	Pounds	Square Yards	Value
—	—	—	19,784,447	129,031,312	\$26,345,760
—	—	—	10,014,512	71,330,350	14,718,656
—	—	—	3,721,270	26,912,215	5,172,214
—	—	—	1,866,047	10,949,842	2,444,081
—	—	—	1,439,591	4,435,126	821,013
—	—	—	2,743,027	15,403,779	3,189,796
—	—	—	60,821,531	264,724,549	37,655,931
—	—	—	18,420,133	80,571,018	9,672,373
—	—	—	17,768,548	78,571,331	13,559,013
—	—	—	6,985,263	30,422,739	3,733,795
—	—	—	3,537,355	15,476,342	1,995,957
—	—	—	14,110,232	59,683,119	8,694,793
—	—	—	35,049,505	148,112,690	16,845,722
—	—	—	17,188,704	74,805,568	8,063,961
—	—	—	2,674,682	10,782,568	1,813,672
—	—	—	2,361,859	10,163,351	1,009,246
—	—	—	12,824,260	52,361,203	5,958,843
—	—	—	25,772,026	116,611,859	20,810,209
—	—	—	15,093,866	67,788,763	11,745,341
—	—	—	1,231,429	5,765,450	1,608,412
—	—	—	1,175,496	5,312,991	986,711
—	—	—	8,271,235	37,744,655	6,469,745
47,566,144	326,087,427	\$43,323,433	37,000,333	272,453,611	32,100,888
16,449,563	128,933,441	18,801,664	17,193,215	138,870,604	16,584,875
6,172,927	43,018,788	6,499,226	9,352,652	55,000,428	6,728,934
4,902,426	35,303,649	5,627,334	2,764,314	25,908,656	3,263,727
20,041,228	118,831,549	12,395,209	7,690,152	52,673,923	5,523,352
—	—	—	6,958,957	34,956,696	3,636,160
—	—	—	970,204	6,974,061	677,860
—	—	—	5,988,753	27,982,635	2,958,300
—	—	—	30,041,376	237,496,915	28,464,728
—	—	—	16,223,011	131,896,543	15,907,015
—	—	—	13,818,365	105,600,372	12,557,713
14,605,965	124,478,525	14,438,387	17,571,239	151,654,198	15,011,868
10,638,969	93,857,220	10,328,381	14,320,344	126,666,413	12,471,720
934,865	7,951,758	1,175,473	1,374,143	11,261,078	1,180,671
701,905	5,879,722	796,591	1,078,427	9,173,197	914,781
2,330,226	16,789,825	2,137,942	598,325	4,553,510	444,696
—	—	—	4,321,016	29,444,777	2,934,370
—	—	—	3,289,658	22,097,566	2,244,594
—	—	—	1,031,358	7,347,211	689,776
—	—	—	13,250,223	122,209,421	12,077,498
—	—	—	11,230,686	104,568,847	10,227,126
—	—	—	2,019,537	17,640,574	1,850,372

United States Production of the Principal Cotton Piece

Source: United States

Quantity for leading States that can be shown separately

	1923		
	Pounds	Square Yards	Value
Woven Goods — <i>continued.</i>			
Crêpes	— ¹	— ¹	— ¹
Massachusetts	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Average single yarn-count, 40's and under	— ¹	— ¹	— ¹
Average single yarn-count, 41's and over	— ¹	— ¹	— ¹
Ginghams	118,123,767	571,664,554	\$99,697,821
North Carolina	35,046,212	163,296,966	27,084,300
Massachusetts	28,174,436	136,695,791	27,217,540
South Carolina	6,758,238	37,491,030	5,152,443
All other States	48,144,881	234,180,767	40,243,538
Average single yarn-count, 40's and under	— ¹	— ¹	— ¹
North Carolina	— ¹	— ¹	— ¹
Massachusetts	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Average single yarn-count, 41's and over	— ¹	— ¹	— ¹
North Carolina	— ¹	— ¹	— ¹
Massachusetts	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Print cloth	258,956,432	1,578,196,293	144,054,051
South Carolina	148,981,229	830,088,788	78,459,995
Massachusetts	60,829,010	459,296,360	37,585,502
North Carolina	19,495,587	119,174,230	10,596,414
Georgia	— ¹	— ¹	— ¹
All other States	29,650,606	169,636,915	17,412,140
Widths 36 inches and wider	— ¹	— ¹	— ¹
South Carolina	— ¹	— ¹	— ¹
Massachusetts	— ¹	— ¹	— ¹
North Carolina	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Widths narrower than 36 inches	— ¹	— ¹	— ¹
South Carolina	— ¹	— ¹	— ¹
Massachusetts	— ¹	— ¹	— ¹
North Carolina	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Pajama checks, dinities and similar fabrics	— ¹	— ¹	— ¹
South Carolina	— ¹	— ¹	— ¹
North Carolina	— ¹	— ¹	— ¹
Massachusetts	— ¹	— ¹	— ¹
Connecticut	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Average single yarn-count, 40's and under	— ¹	— ¹	— ¹
North Carolina	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Average single yarn-count, 41's and over	— ¹	— ¹	— ¹

¹ Not reported.

Goods; and Yarns for Sale, 1923, 1925 and 1927 — (Continued)

Bureau of the Census

without disclosing the operations of individual establishments

1925			1927		
Pounds	Square Yards	Value	Pounds	Square Yards	Value
—	—	—	2,481,673	11,738,948	\$2,209,726
—	—	—	1,310,532	7,007,560	1,375,940
—	—	—	1,171,141	4,731,388	833,786
—	—	—	1,602,945	6,673,864	1,303,030
—	—	—	878,728	5,065,084	906,696
71,770,468	356,475,999	\$57,591,279	60,267,681	290,618,626	37,128,856
22,504,607	115,052,313	15,388,372	18,504,742	95,503,146	10,792,485
15,927,535	77,980,136	15,357,366	7,829,555	37,555,318	7,389,801
5,612,516	29,300,264	3,390,493	4,940,380	30,296,183	2,713,194
27,725,810	134,143,286	23,455,048	28,993,004	127,263,979	16,233,376
—	—	—	58,085,053	279,947,167	34,477,450
—	—	—	17,736,270	91,105,004	10,171,615
—	—	—	6,808,164	33,383,536	5,941,550
—	—	—	33,540,619	155,458,627	18,364,285
—	—	—	2,182,628	10,671,459	2,651,406
—	—	—	768,472	4,398,142	620,870
—	—	—	1,021,391	4,171,782	1,448,251
—	—	—	392,765	2,101,535	582,285
195,594,472	1,166,374,053	98,452,763	270,577,116	1,583,861,282	109,826,442
128,591,193	739,834,612	63,314,859	174,699,301	1,003,767,862	69,431,647
30,338,206	208,599,259	16,752,660	30,966,849	202,364,073	13,196,359
16,940,923	104,535,543	8,686,219	25,700,647	150,892,113	10,046,067
—	—	—	8,627,635	54,965,722	3,565,319
19,724,150	113,404,639	9,699,025	30,582,684	171,871,512	13,587,050
—	—	—	229,826,816	1,322,875,122	92,570,977
—	—	—	150,966,314	860,837,479	60,038,772
—	—	—	25,890,881	164,512,464	10,940,681
—	—	—	24,344,301	143,064,591	9,495,560
—	—	—	28,625,320	154,460,588	12,095,964
—	—	—	40,750,300	260,986,160	17,255,465
—	—	—	23,732,987	142,930,383	9,392,875
—	—	—	5,075,968	37,851,609	2,255,678
—	—	—	1,356,346	7,827,522	550,507
—	—	—	10,584,999	72,376,646	5,056,405
—	—	—	22,685,386	14,813,095	10,198,312
—	—	—	13,968,568	65,570,328	5,500,995
—	—	—	4,869,579	25,153,173	2,020,599
—	—	—	2,499,468	18,449,519	1,901,410
—	—	—	969,214	3,659,675	502,515
—	—	—	378,557	1,980,400	272,793
—	—	—	19,444,367	97,432,446	7,939,420
—	—	—	4,869,579	25,153,173	2,020,599
—	—	—	14,574,788	72,279,273	5,918,821
—	—	—	3,241,019	17,380,649	2,258,892

United States Production of the Principal Cotton Piece

Source: United States

Quantity for leading States that can be shown separately

	1923		
	Pounds	Square Yards	Value
<i>Woven Goods — continued</i>			
Sheetings	410,765,976	1,695,520,069	\$208,338,025
South Carolina	136,264,184	549,849,047	59,478,805
Georgia	67,559,646	271,562,614	33,446,163
North Carolina	41,352,478	184,051,205	21,654,862
Alabama	27,509,202	106,912,957	13,547,800
Massachusetts	27,721,120	136,433,893	18,024,610
Virginia	18,685,523	113,944,840	10,876,891
Tennessee	2,023,870	11,145,731	927,319
Maine	23,204,648	58,765,472	12,056,817
Mississippi	7,010,339	37,863,285	3,501,120
All other States	59,434,966	224,991,025	34,823,638
Widths 40 inches and narrower	— ¹	— ¹	— ¹
South Carolina	— ¹	— ¹	— ¹
Georgia	— ¹	— ¹	— ¹
Alabama	— ¹	— ¹	— ¹
North Carolina	— ¹	— ¹	— ¹
Maine	— ¹	— ¹	— ¹
Massachusetts	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Widths over 40 inches	— ¹	— ¹	— ¹
North Carolina	— ¹	— ¹	— ¹
Georgia	— ¹	— ¹	— ¹
South Carolina	— ¹	— ¹	— ¹
Massachusetts	— ¹	— ¹	— ¹
Maine	— ¹	— ¹	— ¹
Alabama	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
<i>Pillow tubing</i>			
Average single yarn-count, 40's and under	5,760,219	17,286,049	3,347,319
Maine	2,271,990	6,838,615	1,344,567
New Hampshire	— ¹	— ¹	— ¹
All other States	3,488,229	10,447,434	2,002,752
<i>Pile fabrics — plushes, velvets and velveteens</i>			
Pennsylvania	24,061,745	27,710,667	35,620,967
Pennsylvania	17,910,828	17,039,775	26,453,434
All other States	6,150,917	10,670,892	9,167,533
Corduroys	13,809,672	27,388,676	12,043,062
<i>Twills and sateens</i>			
Massachusetts	152,797,166	489,380,066	91,589,275
Massachusetts	29,312,659	130,902,592	23,937,695
South Carolina	14,183,790	26,209,152	4,962,493
Georgia	22,942,122	61,611,879	11,668,337
North Carolina	6,482,009	24,119,518	3,122,597
Rhode Island	10,101,049	47,906,219	8,058,083
Maine	— ¹	— ¹	— ¹
Connecticut	10,132,376	44,365,575	7,801,203
All other States	59,643,161	154,265,131	32,038,867

¹ Not reported.

Goods; and Yarns for Sale, 1923, 1925 and 1927— (Continued)

Bureau of the Census

without disclosing the operations of individual establishments

1925			1927		
Pounds	Square Yards	Value	Pounds	Square Yards	Value
369,375,945	1,638,168,738	\$180,357,058	435,706,842	1,857,476,174	\$167,888,002
106,478,909	501,219,102	46,438,505	139,036,798	631,122,629	47,965,757
69,733,229	316,956,652	31,919,694	73,787,017	320,253,192	25,091,138
47,538,594	225,007,412	23,021,544	45,648,594	216,346,595	17,919,350
26,264,596	107,996,776	11,132,106	37,319,790	143,464,866	11,573,046
24,861,493	95,439,280	15,244,046	28,190,607	97,464,616	15,187,886
20,977,109	93,922,616	10,127,408	21,614,543	95,056,125	8,799,841
3,622,053	19,545,248	1,535,036	16,908,171	78,780,693	5,498,095
19,659,339	74,480,407	11,332,767	20,972,217	65,871,382	10,411,851
5,071,095	29,584,452	2,289,374	7,032,356	41,011,471	2,417,956
45,169,528	174,016,793	27,316,578	45,196,749	168,104,605	23,023,082
- 1	- 1	- 1	278,381,417	1,209,422,165	93,948,546
- 1	- 1	- 1	122,308,327	541,204,393	40,252,822
- 1	- 1	- 1	50,621,033	211,092,611	16,810,213
- 1	- 1	- 1	32,159,780	118,783,962	9,595,343
- 1	- 1	- 1	19,970,276	93,668,297	6,890,698
- 1	- 1	- 1	4,106,330	14,265,511	2,236,719
- 1	- 1	- 1	1,742,102	8,917,973	894,761
- 1	- 1	- 1	47,473,569	221,489,418	17,267,990
- 1	- 1	- 1	157,325,425	648,054,009	73,939,456
- 1	- 1	- 1	25,678,318	122,678,298	11,028,652
- 1	- 1	- 1	23,165,984	109,160,581	8,280,925
- 1	- 1	- 1	16,728,471	89,918,236	7,712,935
- 1	- 1	- 1	26,448,505	88,546,643	14,293,125
- 1	- 1	- 1	16,865,887	51,605,871	8,175,132
- 1	- 1	- 1	5,160,010	24,680,904	1,977,703
- 1	- 1	- 1	43,278,250	161,463,476	22,470,984
8,214,054	30,528,811	5,473,381	8,574,007	26,652,380	4,416,380
3,493,213	13,193,637	2,292,752	3,578,277	8,661,006	1,741,201
- 1	- 1	- 1	1,184,472	3,902,592	676,874
4,720,841	17,335,174	3,180,629	3,811,258	14,088,782	1,998,305
30,609,434	33,478,404	40,678,952	35,641,022	42,689,229	45,710,213
21,964,480	21,575,608	29,304,349	18,160,964	20,391,464	30,100,360
8,644,954	11,902,796	11,374,603	17,480,058	22,297,765	15,609,853
13,524,234	21,593,116	9,553,345	14,243,149	23,171,265	8,677,161
151,500,381	532,830,805	84,133,051	111,972,833	413,996,565	50,336,045
28,124,919	133,519,175	19,689,223	21,694,381	107,065,026	11,926,516
19,423,269	69,560,978	8,940,708	24,171,378	77,540,914	8,904,500
26,016,676	71,043,019	11,459,627	13,443,239	34,860,497	4,283,841
7,069,133	28,189,463	3,823,455	6,619,418	32,586,207	3,347,921
9,074,279	41,702,529	7,251,669	7,127,714	31,305,058	4,284,264
9,404,882	26,570,297	5,231,535	8,281,919	30,910,278	4,238,572
9,779,818	44,083,993	7,301,408	4,031,179	17,607,722	2,616,146
42,607,405	118,161,351	20,435,426	26,603,605	82,120,863	10,734,285

United States Production of the Principal Cotton Piece

Source: United States

Quantity for leading States that can be shown separately

	1923		
	Pounds	Square Yards	Value
<i>Woven Goods — continued</i>			
<i>Twills and sateens — continued</i>			
Average single yarn-count, 40's and under	— 1	— 1	— 1
Massachusetts	— 1	— 1	— 1
Georgia	— 1	— 1	— 1
Rhode Island	— 1	— 1	— 1
All other States	— 1	— 1	— 1
Average single yarn-count, 41's and over	— 1	— 1	— 1
Massachusetts	— 1	— 1	— 1
Rhode Island	— 1	— 1	— 1
All other States	— 1	— 1	— 1
Drills	105,309,534	303,420,862	\$46,761,510
Georgia	37,886,397	116,119,981	16,746,888
Alabama	19,589,413	54,143,523	8,449,310
South Carolina	27,201,159	75,103,202	11,190,492
North Carolina	8,414,805	22,379,692	4,022,243
Massachusetts	— 1	— 1	— 1
Mississippi	— 1	— 1	— 1
All other States	12,217,760	35,674,464	6,352,577
Widths 40 inches and narrower	— 1	— 1	— 1
Georgia	— 1	— 1	— 1
Mississippi	— 1	— 1	— 1
All other States	— 1	— 1	— 1
Widths over 40 inches	— 1	— 1	— 1
Georgia	— 1	— 1	— 1
All other States	— 1	— 1	— 1
Napped fabrics	116,224,670	381,396,884	69,635,301
North Carolina	40,505,694	146,958,460	25,444,906
New Hampshire	21,674,515	69,933,971	12,884,181
South Carolina	— 1	— 1	— 1
Massachusetts	28,626,781	100,925,303	19,069,005
Georgia	15,060,620	27,957,360	6,780,303
Maine	5,017,088	18,348,407	2,859,142
Alabama	— 1	— 1	— 1
All other States	5,339,972	17,273,383	2,597,764
Blanketings (sold as piece goods)	— 1	— 1	— 1
Canton flannel	— 1	— 1	— 1
Georgia	— 1	— 1	— 1
North Carolina	— 1	— 1	— 1
All other States	— 1	— 1	— 1
Cotton flannel (flannelettes, domets, outing, and similar fabrics)	— 1	— 1	— 1
North Carolina	— 1	— 1	— 1
New Hampshire	— 1	— 1	— 1
All other States	— 1	— 1	— 1
Other	— 1	— 1	— 1
Massachusetts	— 1	— 1	— 1
All other States	— 1	— 1	— 1

1 Not reported.

Goods; and Yarns for Sale, 1923, 1925 and 1927—(Continued)

Bureau of the Census

without disclosing the operations of individual establishments

1925			1927		
Pounds	Square Yards	Value	Pounds	Square Yards	Value
—	—	—	99,726,601	350,938,322	\$40,859,904
—	—	—	17,906,174	86,062,930	8,523,953
—	—	—	13,443,239	34,860,497	4,283,841
—	—	—	4,988,808	20,810,462	2,521,652
—	—	—	63,388,380	209,204,433	25,530,458
—	—	—	12,246,232	63,058,243	9,476,141
—	—	—	3,788,207	21,002,096	3,402,563
—	—	—	2,138,906	10,494,596	1,762,612
—	—	—	6,319,119	31,561,551	4,310,966
103,457,753	286,114,586	\$42,388,768	128,687,635	347,775,666	40,668,249
34,816,476	92,985,954	14,615,296	41,671,811	113,824,768	12,830,301
19,519,402	53,269,074	7,886,122	38,960,595	92,897,054	11,917,644
26,918,735	77,357,241	10,476,619	24,940,183	76,180,715	7,858,621
8,654,056	25,563,558	3,608,708	11,008,591	30,264,212	3,650,804
—	—	—	1,929,873	4,623,134	788,859
—	—	—	1,210,560	4,061,501	376,758
13,549,084	36,938,759	5,802,023	8,966,022	25,924,282	3,245,262
—	—	—	97,548,425	260,469,896	30,750,484
—	—	—	24,614,196	65,023,578	7,649,734
—	—	—	1,210,560	4,061,501	376,758
—	—	—	71,723,669	191,384,817	22,723,992
—	—	—	31,139,210	87,305,770	9,917,765
—	—	—	17,057,615	48,801,190	5,180,567
—	—	—	14,081,595	38,504,580	4,737,198
101,058,550	340,415,819	53,606,741	125,944,806	400,097,211	55,386,356
34,391,192	134,847,018	18,119,707	43,503,378	169,621,911	18,129,437
20,826,225	69,067,378	11,450,402	19,800,678	66,829,356	9,903,907
—	—	—	10,113,446	36,389,613	3,999,770
18,644,419	66,280,654	11,794,802	14,014,934	36,216,416	8,167,550
13,763,195	23,609,077	5,780,234	19,927,329	34,723,837	7,347,923
5,561,795	20,654,159	2,695,089	7,432,826	26,816,435	3,682,690
—	—	—	8,779,773	25,531,812	2,703,392
7,871,724	25,957,533	3,766,507	2,372,442	3,967,831	1,451,687
—	—	—	5,576,787	10,142,817	4,312,418
—	—	—	18,198,334	34,971,189	6,194,680
—	—	—	7,895,310	13,439,389	2,783,855
—	—	—	6,255,537	12,765,592	1,892,093
—	—	—	4,047,487	8,766,208	1,518,732
—	—	—	86,730,138	328,061,554	38,257,305
—	—	—	37,020,488	156,504,571	16,112,002
—	—	—	18,807,415	64,760,009	9,291,872
—	—	—	30,902,235	106,796,974	12,853,431
—	—	—	15,439,547	26,921,651	6,621,953
—	—	—	3,565,312	5,398,022	1,909,682
—	—	—	11,874,235	21,523,629	4,712,271

United States Production of the Principal Cotton Piece

Source: United States

Quantity for leading States that can be shown separately

	1923		
	Pounds	Square Yards	Value
<i>Woven Goods — continued</i>			
Tobacco, cheese, butter, bunting and bandage cloths	31,663,480	402,312,139	\$20,110,478
Massachusetts	20,530,516	248,276,400	13,605,593
South Carolina	— ¹	— ¹	— ¹
All other States	11,132,964	154,035,739	6,504,885
Denims	123,518,010	225,640,344	60,949,235
North Carolina	49,440,283	89,557,002	23,506,698
Georgia	16,731,071	32,591,652	7,326,217
New Hampshire	8,896,539	15,429,494	4,481,642
All other States	48,450,117	88,062,196	25,634,678
Standard denim, white back and double twist	— ¹	— ¹	— ¹
North Carolina	— ¹	— ¹	— ¹
Georgia	— ¹	— ¹	— ¹
New Hampshire	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Pin checks, express stripes and all other	— ¹	— ¹	— ¹
Georgia	— ¹	— ¹	— ¹
North Carolina	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Tickings	20,438,417	53,499,190	11,452,767
Georgia	3,545,418	7,940,484	1,903,348
North Carolina	5,338,416	17,336,236	2,822,754
Pennsylvania	2,331,281	4,241,861	1,612,440
All other States	9,223,302	23,980,609	5,114,225
Osnaburgs	49,988,195	109,101,142	19,539,170
Georgia	14,171,142	32,460,448	5,613,527
South Carolina	14,864,820	28,408,425	5,213,167
Alabama	6,359,611	13,046,238	2,142,192
Texas	2,998,751	8,019,398	1,353,943
Tennessee	— ¹	— ¹	— ¹
All other States	11,593,871	27,166,633	5,216,341
Cotton bags made from fabric woven by same establishment	19,068,727	48,314,025	5,863,923
Tire fabrics	163,686,944	226,555,107	106,079,633
Cord fabric for tires	60,269,377	100,727,166	39,631,780
Massachusetts	23,781,942	28,019,743	16,840,725
Georgia	— ¹	— ¹	— ¹
North Carolina	— ¹	— ¹	— ¹
All other States	36,487,435	72,707,423	22,791,055
Tire duck	63,858,718	68,258,927	42,324,027
North Carolina	— ¹	— ¹	— ¹
Georgia	5,468,571	7,656,161	3,118,056
Massachusetts	18,280,763	17,921,361	12,718,757
All other States	40,109,384	42,681,405	26,487,214

¹ Not reported.

Goods; and Yarns for Sale, 1923, 1925 and 1927—(Continued)

Bureau of the Census

without disclosing the operations of individual establishments

1925			1927		
Pounds	Square Yards	Value	Pounds	Square Yards	Value
30,571,048	451,633,354	\$16,269,354	41,120,676	660,424,343	\$19,298,187
16,713,976	242,175,661	9,349,693	20,042,171	272,589,500	9,400,871
6,934,347	105,151,924	3,429,987	11,111,258	222,849,857	5,775,575
6,922,725	104,305,769	3,489,674	9,967,247	16,498,986	4,121,741
103,958,090	180,491,656	46,092,096	144,605,484	254,117,955	49,791,845
39,101,506	67,552,257	17,689,779	53,973,219	93,698,105	17,417,195
19,086,332	32,779,149	7,836,613	22,746,932	39,919,413	8,044,530
7,072,343	11,920,016	2,961,190	9,624,460	16,054,442	3,222,161
38,697,909	68,240,234	17,604,514	58,260,873	104,445,995	21,107,959
- 1	- 1	- 1	132,044,846	226,295,040	43,942,560
- 1	- 1	- 1	53,442,320	92,324,025	17,203,415
- 1	- 1	- 1	18,496,722	30,078,825	6,263,001
- 1	- 1	- 1	9,624,460	16,054,442	3,222,161
- 1	- 1	- 1	50,481,344	87,837,748	17,253,983
- 1	- 1	- 1	12,560,638	27,822,915	5,849,285
- 1	- 1	- 1	4,250,210	9,840,588	1,781,529
- 1	- 1	- 1	530,899	1,374,080	213,780
- 1	- 1	- 1	7,779,529	16,608,247	3,853,976
20,842,173	48,362,153	10,304,978	24,567,950	59,283,350	10,358,553
4,777,169	8,806,213	2,014,689	7,467,860	19,131,596	2,936,008
5,025,637	14,872,377	2,646,734	6,072,799	16,487,595	2,374,767
2,140,810	3,866,476	1,313,049	2,276,225	4,107,199	1,206,781
8,898,557	20,817,087	4,330,146	8,751,066	19,556,960	3,840,997
53,891,002	118,068,963	18,448,738	72,247,512	164,975,794	17,899,540
18,368,009	39,046,869	6,737,694	22,509,380	54,158,758	6,100,165
14,031,995	32,778,742	4,257,095	21,044,550	45,143,614	4,932,166
10,719,511	22,908,569	3,604,809	17,435,433	38,874,341	3,804,314
2,808,813	5,828,135	1,058,453	4,647,612	10,760,956	1,341,874
- 1	- 1	- 1	1,638,490	3,566,716	385,047
7,962,674	17,506,648	2,790,687	4,972,047	12,471,409	1,335,974
7,492,094	12,693,953	3,383,670	12,366,948	17,557,936	3,271,207
189,345,195	242,126,459	105,625,894	197,353,058	225,936,642	80,974,199
140,492,454	176,964,466	80,478,625	160,612,114	179,740,778	66,974,970
35,734,110	41,417,980	19,601,675	39,236,673	47,578,954	16,804,298
- 1	- 1	- 1	49,927,324	47,302,074	19,371,101
17,095,658	24,822,855	9,967,845	26,676,525	30,812,526	11,286,570
87,662,686	110,723,631	50,909,105	44,771,592	54,047,224	19,513,001
32,081,733	40,761,508	16,628,610	30,164,943	35,474,346	11,343,197
8,356,220	11,906,996	4,450,517	8,912,827	10,513,237	3,641,203
12,822,770	15,776,838	5,880,108	9,557,361	10,063,215	3,281,382
3,173,521	3,796,113	1,859,146	3,748,901	4,402,589	1,542,641
7,729,222	9,281,561	4,438,839	7,945,854	10,495,305	2,877,971

United States Production of the Principal Cotton Piece

Source: United States

Quantity for leading States that can be shown separately

	1923		
	Pounds	Square Yards	Value
Woven Goods — <i>continued</i>			
Tire fabrics — <i>continued</i>			
Tire fabrics other than cord or duck	39,558,849	57,569,014	\$24,123,826
Georgia	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Duck, ounce	89,921,485	139,221,366	42,766,224
Georgia	30,476,588	38,114,787	13,005,110
Alabama	16,960,663	29,134,834	8,407,489
Texas	21,896,592	37,974,541	9,668,066
Massachusetts	6,993,673	12,072,914	4,186,416
All other States	13,593,969	21,924,290	7,499,143
Duck, army	— ¹	— ¹	— ¹
Alabama	— ¹	— ¹	— ¹
Georgia	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Duck, hose and belt	— ¹	— ¹	— ¹
Georgia	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Duck, filter cloth	— ¹	— ¹	— ¹
Georgia	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Duck, flat laid	— ¹	— ¹	— ¹
Texas	— ¹	— ¹	— ¹
Georgia	— ¹	— ¹	— ¹
Alabama	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Duck, all other	— ¹	— ¹	— ¹
Texas	— ¹	— ¹	— ¹
Georgia	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Duck, numbered	31,333,334	27,862,308	14,397,179
Alabama	— ¹	— ¹	— ¹
Georgia	13,225,427	9,531,654	5,818,658
Maryland	8,859,323	8,607,810	4,303,172
All other States	9,248,584	9,722,844	4,275,349
Duck, sail	— ¹	— ¹	— ¹
Wide duck	— ¹	— ¹	— ¹
Georgia	— ¹	— ¹	— ¹
Maryland	— ¹	— ¹	— ¹
All other States	— ¹	— ¹	— ¹
Naught duck including hydraulic and biscuit	— ¹	— ¹	— ¹
All other numbered duck	— ¹	— ¹	— ¹

¹ Not reported.

Goods; and Yarns for Sale, 1923, 1925 and 1927 — (Continued)

Bureau of the Census

without disclosing the operations of individual establishments

1925			1927		
Pounds	Square Yards	Value	Pounds	Square Yards	Value
16,771,008	24,400,485	\$8,518,659	6,576,001	10,716,518	\$2,656,032
- 1	- 1	- 1	2,830,935	4,286,490	1,085,011
- 1	- 1	- 1	3,745,066	6,430,028	1,571,021
97,371,485	161,883,782	40,295,987	132,816,520	178,807,302	43,555,624
34,318,256	49,955,488	14,162,933	43,752,864	50,943,980	13,763,577
21,124,845	41,017,234	8,699,418	32,039,715	46,905,716	10,254,448
22,562,146	38,203,296	8,549,143	27,249,679	43,421,794	7,178,812
6,590,752	11,687,072	3,095,696	6,914,483	10,917,866	3,616,368
12,775,486	21,020,692	5,788,797	22,859,779	26,617,946	8,742,419
- 1	- 1	- 1	22,740,129	32,678,853	9,206,034
- 1	- 1	- 1	7,214,353	12,317,097	2,698,148
- 1	- 1	- 1	5,295,954	6,271,393	1,945,376
- 1	- 1	- 1	10,229,822	14,090,363	4,562,510
- 1	- 1	- 1	33,019,342	19,804,985	10,791,106
- 1	- 1	- 1	17,584,264	9,012,531	5,798,587
- 1	- 1	- 1	15,435,078	10,792,454	4,992,519
- 1	- 1	- 1	2,504,181	2,743,314	1,229,075
- 1	- 1	- 1	1,008,932	969,889	330,654
- 1	- 1	- 1	1,495,249	1,773,425	898,421
- 1	- 1	- 1	62,936,377	105,248,546	18,554,277
- 1	- 1	- 1	20,428,895	33,318,943	5,415,357
- 1	- 1	- 1	18,411,249	31,787,478	5,162,704
- 1	- 1	- 1	16,015,761	26,057,488	5,069,221
- 1	- 1	- 1	8,080,472	14,084,637	2,906,995
- 1	- 1	- 1	11,616,491	18,331,604	3,775,132
- 1	- 1	- 1	6,376,077	9,506,634	1,623,600
- 1	- 1	- 1	1,452,465	2,902,689	526,256
- 1	- 1	- 1	3,787,949	5,922,281	1,625,276
33,843,802	31,449,971	13,531,070	42,483,191	39,697,572	14,373,755
- 1	- 1	- 1	13,302,293	12,309,393	4,051,836
8,302,057	7,985,603	3,818,867	11,829,691	10,582,331	3,844,066
10,104,246	11,050,571	4,568,323	10,315,144	9,653,786	3,576,433
15,437,499	12,413,797	5,143,880	7,036,063	7,152,062	2,901,420
- 1	- 1	- 1	3,786,418	3,590,557	1,372,645
- 1	- 1	- 1	28,202,782	25,759,855	9,173,140
- 1	- 1	- 1	11,202,196	9,933,196	3,658,563
- 1	- 1	- 1	6,274,340	6,547,291	2,167,815
- 1	- 1	- 1	10,726,246	9,279,368	3,346,762
- 1	- 1	- 1	3,291,013	2,113,422	1,178,099
- 1	- 1	- 1	7,202,978	8,233,738	2,649,871

United States Production of the Principal Cotton Piece

Source: United States

Quantity for leading States that can be shown separately

	1923		
	Pounds	Square Yards	Value
<i>Woven Goods — continued</i>			
Mosquito netting and tarlatan	3,850,321	37,383,959	\$2,773,926
Average single yarn-count, 40's and under	- 1	- 1	- 1
Average single yarn-count, 41's and over	- 1	- 1	- 1
Towels, toweling and wash cloths	58,538,617	122,645,597	36,692,663
Pennsylvania	8,131,596	15,709,909	7,047,902
South Carolina	- 1	- 1	- 1
New Jersey	- 1	- 1	- 1
New York	- 1	- 1	- 1
All other States	50,407,021	106,935,688	29,644,761
Towels and towelings	- 1	- 1	- 1
Plain woven	- 1	- 1	- 1
Turkish and terry woven	- 1	- 1	- 1
Pennsylvania	- 1	- 1	- 1
All other States	- 1	- 1	- 1
Huck woven	- 1	- 1	- 1
Damask or Jaquard	- 1	- 1	- 1
Other	- 1	- 1	- 1
Pennsylvania	- 1	- 1	- 1
All other States	- 1	- 1	- 1
Wash cloths	- 1	- 1	- 1
Pennsylvania	- 1	- 1	- 1
All other States	- 1	- 1	- 1
<i>Sheets and pillow cases</i>			
Average single yarn-count, principally 40's and under	8,554,190	32,099,010	6,067,490
North Carolina	- 1	- 1	- 1
All other States	- 1	- 1	- 1
Blankets	38,333,215	88,060,112	24,712,877
Massachusetts	16,122,461	16,354,558	10,224,088
All other States	22,210,754	71,705,554	14,488,789
Blankets, except crib	- 1	- 1	- 1
Narrow (60 inches or less):	- 1	- 1	- 1
Single length	- 1	- 1	- 1
Pair length	- 1	- 1	- 1
Wide (over 60 inches):	- 1	- 1	- 1
Single length	- 1	- 1	- 1
Pair length	- 1	- 1	- 1
Crib blankets	- 1	- 1	- 1
<i>Cotton table damask</i>			
Average single yarn-count, 40's and under	15,192,910	40,905,122	10,851,934
North Carolina	8,280,590	22,934,267	5,936,839
All other States	6,912,320	17,970,855	4,915,095

1 Not reported.

Goods; and Yarns for Sale, 1923, 1925 and 1927 — (Continued)

Bureau of the Census

without disclosing the operations of individual establishments

1925			1927		
Pounds	Square Yards	Value	Pounds	Square Yards	Value
1,384,139	21,094,700	\$1,358,884	856,036	14,727,287	\$850,312
- 1	- 1	- 1	562,101	8,550,317	477,839
- 1	- 1	- 1	293,935	6,176,970	372,473
61,063,456	126,565,750	38,149,566	83,848,302	169,997,031	42,611,371
5,969,469	9,918,070	6,004,452	6,676,922	9,457,058	5,904,326
- 1	- 1	- 1	4,152,783	9,400,182	1,957,077
- 1	- 1	- 1	2,850,412	6,931,817	1,355,997
- 1	- 1	- 1	1,301,542	3,693,572	966,285
55,093,987	116,647,680	32,145,114	68,866,643	140,514,402	32,427,686
- 1	- 1	- 1	80,721,578	164,536,662	40,154,275
- 1	- 1	- 1	7,231,026	17,860,746	2,782,932
- 1	- 1	- 1	48,780,529	89,248,006	23,429,135
- 1	- 1	- 1	3,375,267	4,960,485	3,283,361
- 1	- 1	- 1	45,405,262	84,287,521	20,145,774
- 1	- 1	- 1	13,212,336	34,644,035	6,312,867
- 1	- 1	- 1	7,016,377	14,306,185	5,057,452
- 1	- 1	- 1	4,481,310	8,477,690	2,571,889
- 1	- 1	- 1	1,201,315	856,967	981,367
- 1	- 1	- 1	3,279,995	7,620,723	1,590,522
- 1	- 1	- 1	3,126,724	5,460,369	2,457,096
- 1	- 1	- 1	1,869,140	3,237,156	1,511,699
- 1	- 1	- 1	1,257,584	2,223,213	945,397
10,979,198	41,416,435	6,727,860	10,037,719	36,664,975	5,036,030
- 1	- 1	- 1	7,569,877	27,574,108	3,342,918
- 1	- 1	- 1	2,467,842	9,090,867	1,693,112
43,278,256	92,077,330	29,547,532	50,494,182	107,262,562	29,452,248
12,991,643	28,394,477	8,990,527	11,576,850	25,345,763	6,698,951
30,286,613	63,682,853	20,557,005	38,917,332	81,916,799	22,753,297
- 1	- 1	- 1	46,803,151	100,587,845	26,523,942
- 1	- 1	- 1	788,821	1,775,696	400,577
- 1	- 1	- 1	2,064,257	4,661,621	973,015
- 1	- 1	- 1	14,424,203	22,705,629	8,751,374
- 1	- 1	- 1	29,525,870	71,444,899	16,398,976
- 1	- 1	- 1	3,691,031	6,674,717	2,928,306
14,604,134	53,468,297	12,450,390	11,005,582	33,523,412	6,751,405
6,817,410	20,751,735	5,019,769	6,648,561	20,537,922	4,755,766
7,786,724	32,716,562	7,430,621	4,357,021	12,985,490	1,995,639

United States Production of the Principal Cotton Piece

Source: United States

Quantity for leading States that can be shown separately

	1923		
	Pounds	Square Yards	Value
Woven Goods — <i>concluded</i>			
Bedspreads and quilts	19,523,614	35,690,784	\$13,552,257
North Carolina	4,668,303	8,111,401	3,100,294
South Carolina	— ¹	— ¹	— ¹
Massachusetts	— ¹	— ¹	— ¹
Georgia	— ¹	— ¹	— ¹
All other States	14,855,311	27,579,383	10,451,963
Double woven fabric (marseilles, satin, etc.) .	— ¹	— ¹	— ¹
Single woven fabric (crochet, dimité, ripplette, etc.)	— ¹	— ¹	— ¹
Cottonades and cotton worsted	10,840,212	20,952,012	6,167,047
Georgia	— ¹	— ¹	— ¹
Pennsylvania	2,010,875	3,820,789	1,575,297
North Carolina	— ¹	— ¹	— ¹
All other States	8,829,337	17,131,223	4,591,750
Cotton tapestries	9,841,684	20,683,704	20,899,297
Pennsylvania	7,771,051	16,837,036	18,617,345
North Carolina	— ¹	— ¹	— ¹
All other States	2,070,633	3,846,668	2,281,952

¹ Not reported.

Goods; and Yarns for Sale, 1923, 1925 and 1927 — (Continued)

Bureau of the Census

without disclosing the operations of individual establishments

1925			1927		
Pounds	Square Yards	Value	Pounds	Square Yards	Value
21,367,170	52,636,525	\$16,703,225	24,026,764	71,282,515	\$18,949,735
5,938,938	13,773,647	4,356,859	10,654,000	32,752,173	7,232,485
2,064,163	8,782,641	1,424,163	2,682,344	9,411,136	2,226,404
— 1	— 1	— 1	3,032,764	8,508,168	3,043,357
— 1	— 1	— 1	1,844,696	4,303,718	804,520
13,364,069	30,080,237	10,922,203	5,812,960	16,307,320	5,642,969
— 1	— 1	— 1	5,946,226	14,591,692	4,615,599
— 1	— 1	— 1	18,080,538	56,690,823	14,334,136
12,825,891	29,131,065	7,903,377	16,542,863	32,696,616	8,149,885
— 1	— 1	— 1	7,418,525	14,512,090	3,230,179
2,967,507	6,245,201	2,858,136	3,177,196	5,425,326	2,170,367
— 1	— 1	— 1	907,250	1,778,943	433,429
9,858,384	22,885,864	5,045,241	5,039,892	10,980,257	2,315,910
8,971,888	15,737,233	17,390,463	11,521,470	18,618,999	16,612,012
6,982,092	10,351,238	14,667,223	4,778,634	7,170,892	11,175,205
— 1	— 1	— 1	423,551	1,083,011	467,929
1,989,796	5,385,995	2,723,240	6,319,285	10,365,096	4,968,878

United States Production of the Principal Cotton Piece

Source: United States

Quantity for leading States that can be shown separately

	1923	
	Pounds	Value
Cotton yarns for sale	620,725,267	\$348,684,605
North Carolina	259,579,191	135,575,279
Georgia	86,553,515	41,471,315
Massachusetts	79,272,641	55,875,564
South Carolina	38,402,586	20,427,412
Alabama	34,068,864	15,166,913
Tennessee	21,993,655	15,432,500
New York	30,160,013	14,164,343
Rhode Island	16,800,660	12,836,629
Connecticut	5,175,827	4,075,611
Maine	— ¹	— ¹
Texas	— ¹	— ¹
All other States	48,718,315	33,659,039
Carded	— ¹	— ¹
Yarns for sewing thread, crochet, darning, band, knit- ting and embroidery cotton	— ¹	— ¹
All other including those for weaving	— ¹	— ¹
North Carolina	— ¹	— ¹
Georgia	— ¹	— ¹
Alabama	— ¹	— ¹
Massachusetts	— ¹	— ¹
Tennessee	— ¹	— ¹
Rhode Island	— ¹	— ¹
Connecticut	— ¹	— ¹
Texas	— ¹	— ¹
All other States	— ¹	— ¹
Combed	— ¹	— ¹
Yarns for sewing thread, crochet, darning, band, knit- ting and embroidery cotton	— ¹	— ¹
Massachusetts	— ¹	— ¹
Connecticut	— ¹	— ¹
All other States	— ¹	— ¹
All other combed yarns for sale, including those for weaving	— ¹	— ¹
North Carolina	— ¹	— ¹
Massachusetts	— ¹	— ¹
Alabama	— ¹	— ¹
Rhode Island	— ¹	— ¹
Connecticut	— ¹	— ¹
All other States	— ¹	— ¹
Thread	31,645,537	55,311,320
Massachusetts	9,810,335	16,843,061
All other States	21,835,202	38,468,259

¹ Not reported.

Goods; and Yarns for Sale, 1923, 1925 and 1927 — (Continued)

Bureau of the Census

without disclosing the operations of individual establishments

1925		1927	
Pounds	Value	Pounds	Value
626,356,804	\$313,060,245	664,334,562	\$253,663,750
269,327,951	134,438,954	301,713,924	117,703,529
96,871,514	39,903,147	112,582,675	35,522,417
68,914,956	44,888,679	58,338,062	29,752,778
50,469,439	23,814,439	56,113,702	20,540,146
48,183,619	20,572,841	54,119,263	17,130,889
17,302,732	10,588,638	18,336,707	7,538,249
21,165,196	8,640,293	14,298,335	4,142,173
13,901,151	9,598,581	12,150,894	6,833,897
9,352,256	5,948,187	8,600,007	4,759,315
— 1	— 1	5,828,146	2,476,915
— 1	— 1	3,373,751	998,167
30,867,990	14,666,486	18,879,096	6,265,275
— 1	— 1	503,547,898	161,826,629
— 1	— 1	4,049,556	1,554,347
— 1	— 1	499,498,342	160,272,282
— 1	— 1	213,314,919	67,851,779
— 1	— 1	107,239,070	33,073,885
— 1	— 1	40,863,465	12,280,952
— 1	— 1	32,861,349	12,591,956
— 1	— 1	7,587,784	2,458,231
— 1	— 1	5,831,662	2,600,775
— 1	— 1	5,721,718	2,165,587
— 1	— 1	3,373,751	998,167
— 1	— 1	82,704,624	26,250,950
— 1	— 1	160,786,664	91,837,121
— 1	— 1	10,618,750	8,111,222
— 1	— 1	5,789,968	4,046,238
— 1	— 1	1,530,169	1,346,052
— 1	— 1	3,298,613	2,718,932
— 1	— 1	150,167,914	83,725,899
— 1	— 1	87,280,567	49,071,217
— 1	— 1	18,596,808	12,568,402
— 1	— 1	13,255,798	4,849,937
— 1	— 1	6,319,232	4,233,122
— 1	— 1	1,348,120	1,247,676
— 1	— 1	23,367,389	11,755,545
34,167,096	53,284,496	29,992,472	46,409,250
12,616,783	21,352,697	10,444,608	14,387,015
21,550,313	31,931,799	19,547,864	32,022,235

United States Production of the Principal Cotton Piece

Source: United States

Quantity for leading States that can be shown separately

	1923	
	Pounds	Value
Cotton yarns for sale — <i>concluded</i>		
Twine ²	18,696,317	\$8,471,580
Batting wadding and mattress felts ³	100,570,195	16,646,137
Cotton card laps, roping, sliver and rovings	4,584,536	1,569,593
Cotton waste produced for sale	378,640,237	37,305,876
North Carolina	65,938,552	7,163,361
Massachusetts	106,420,255	11,339,453
South Carolina	47,279,031	4,713,033
Georgia	42,724,192	2,130,602
Alabama	16,685,193	1,463,169
Rhode Island	26,067,523	3,125,844
New Hampshire	18,151,360	1,928,720
Connecticut	11,687,467	1,268,423
Maine	9,557,797	717,906
Tennessee	5,193,462	704,885
Virginia	5,726,889	373,260
Texas	2,495,133	137,937
New York	8,304,481	1,056,300
Pennsylvania	— ¹	— ¹
Maryland	— ¹	— ¹
Vermont	— ¹	— ¹
All other States	12,408,902	1,182,983
All other cotton products ⁴	— ¹	23,082,072
Old bagging and ties	— ¹	1,727,984
Amount received for contract work	— ¹	5,718,110
All other products	— ¹	3,706,662

¹ Not reported.

² The figures given in this table relate solely to the products of establishments in the cotton-goods industry, and therefore do not include data for the production of cotton twine by establishments engaged primarily in the manufacture of cordage and twine. The total production of cotton twine by all establishments reporting manufacture of such twine was as follows: For 1923, 38,881,492 pounds, \$17,053,949; for 1925, 49,940,793 pounds, \$19,734,136; for 1927, 64,208,265 pounds, valued at \$20,159,792.

Goods; and Yarns for Sale, 1923, 1925 and 1927 — (Concluded)

Bureau of the Census

without disclosing the operations of individual establishments

1925		1927	
Pounds	Value	Pounds	Value
21,292,464	\$8,915,835	28,280,334	\$9,560,376
90,680,985	14,133,701	129,836,214	16,304,439
4,957,481	1,798,914	3,417,880	980,406
417,094,448	40,622,879	484,416,320	26,808,651
82,974,410	8,614,991	107,186,700	6,718,752
95,246,139	10,971,474	99,468,721	6,790,087
59,230,427	4,903,946	77,563,463	3,590,499
44,536,442	3,046,736	66,370,095	2,664,831
21,996,200	1,690,927	28,273,587	1,239,147
38,923,144	4,946,701	23,931,204	1,762,473
20,434,857	1,359,220	16,038,130	660,520
10,031,584	1,150,658	11,853,756	916,170
7,232,000	615,015	9,462,991	355,688
5,462,037	555,193	8,640,339	441,239
5,242,434	465,876	6,787,871	289,019
3,703,207	254,004	6,475,109	268,773
6,012,418	565,782	5,303,208	288,557
- ¹	- ¹	1,484,194	59,147
- ¹	- ¹	1,285,876	24,299
- ¹	- ¹	1,152,277	89,443
16,069,149	1,482,356	13,138,799	650,007
- ¹	15,878,293	- ¹	7,883,442
- ¹	2,120,099	- ¹	1,414,226
- ¹	16,339,401	- ¹	4,162,113
- ¹	9,748,121	- ¹	16,453,308

³ Does not include mattress felts made in mattress factories.

⁴ Includes cotton small wares to the following values: for 1923, \$11,196,615; for 1925, \$5,133,724; for 1927, \$1,925,342; and cordage and rope the following amounts and values for 1923, 8,402,989 pounds, \$2,283,736; for 1925, 5,472,134 pounds, \$1,905,543; for 1927, 4,331,779 pounds valued at \$1,054,855.

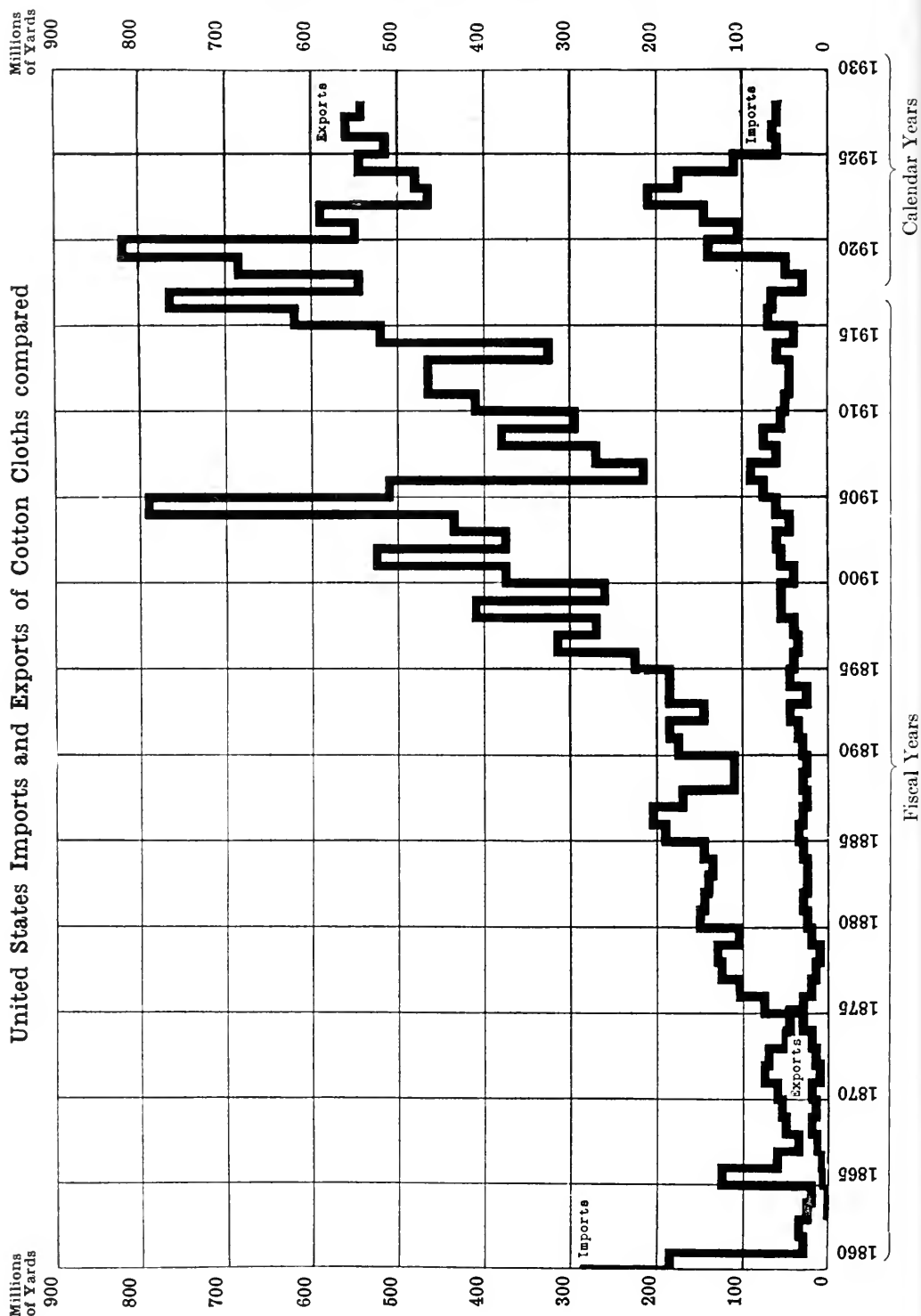
Principal Classes of Cotton Goods produced by Sections, 1923, 1925 and 1927

	1923	1925	1927	INCREASE OR DECREASE (PER CENT)	
				1923 to 1925	1925 to 1927
<i>All Woven Goods (over 12 Inches Wide)</i>					
United States:					
Pounds	2,205,432,778	2,070,985,006	2,433,709,519	- 6.1	17.5
Square yards	8,264,219,579	7,741,568,028	8,980,414,774	- 6.3	16.0
Value	\$1,398,901,764	\$1,245,139,031	\$1,183,760,651	-10.9	- 4.9
Cotton-growing States:					
Pounds	1,355,759,951	1,346,922,487	1,705,309,091	- 0.6	26.4
Square yards	4,767,309,272	4,842,005,472	6,037,010,040	1.6	24.7
Value	\$706,513,963	\$653,000,522	\$666,331,228	- 7.6	2.0
New England States:					
Pounds	713,216,097	589,081,919	608,228,688	-17.4	1.7
Square yards	3,143,580,641	2,607,368,068	2,662,764,632	-17.1	2.1
Value	\$563,108,841	\$459,987,228	\$413,218,579	-18.3	-10.1
<i>Sheetings</i>					
United States:					
Pounds	410,765,976	369,375,945	435,706,842	-10.1	17.9
Square yards	1,695,520,069	1,638,168,738	1,857,476,174	- 3.9	13.4
Value	\$208,338,025	\$180,337,058	\$167,888,002	-13.5	- 6.9
Cotton-growing States:					
Pounds	306,611,734	284,700,475	348,641,419	- 7.2	22.4
Square yards	1,305,829,140	1,318,671,398	1,557,195,980	1.0	18.1
Value	\$146,532,472	\$128,586,070	\$121,890,654	-12.2	- 5.2
New England States:					
Pounds	86,665,991	70,262,227	69,549,295	-18.9	- 1.0
Square yards	329,035,866	270,166,289	236,976,999	-17.9	-12.3
Value	\$50,158,249	\$42,697,037	\$36,260,780	-14.9	-15.0
<i>Lawns, Nainsooks, Cambrics and Similar Muslins</i>					
United States:					
Pounds	56,965,110	47,566,144	37,000,333	-16.5	-22.2
Square yards	367,209,215	326,087,427	272,453,611	-11.2	-16.4
Value	\$57,277,453	\$43,323,433	\$32,100,888	-29.6	-25.9
Cotton-growing States:					
Pounds	14,806,256	18,270,726	5,462,553	23.4	-70.0
Square yards	87,501,636	105,498,813	35,325,951	20.6	-66.4
Value	\$10,348,294	\$10,724,273	\$3,430,322	4.6	-68.0
New England States:					
Pounds	38,976,183	28,500,126	31,237,799	-26.9	9.6
Square yards	268,066,419	215,966,959	235,188,052	-24.1	8.9
Value	\$46,371,298	\$31,906,552	\$28,454,314	-32.0	-10.8

Principal Classes of Cotton Goods produced by Sections,
1923, 1925 and 1927 — (Concluded)

	1923	1925	1927	INCREASE OR DECREASE (PER CENT)	
				1923 to 1925	1925 to 1927
<i>Twills, Sateens, etc.</i>					
United States:					
Pounds	152,797,166	151,500,381	111,972,833	-0.8	-26.1
Square yards	489,380,066	532,830,805	413,996,565	9.0	-22.3
Value	\$91,589,275	\$84,133,051	\$50,336,045	-8.1	-40.2
Cotton-growing States:					
Pounds	70,556,903	79,441,726	56,481,340	12.6	-28.9
Square yards	160,479,897	227,710,989	170,574,064	41.8	-24.6
Value	\$31,770,025	\$35,635,823	\$20,556,885	12.1	-42.3
New England States:					
Pounds	72,823,766	64,489,089	46,832,613	-11.4	-27.4
Square yards	288,703,542	274,708,851	203,688,928	-4.9	-25.9
Value	\$52,894,403	\$44,307,626	\$25,573,700	-16.3	-42.3
<i>Reps, Poplins and Broadcloths</i>					
United States:					
Pounds	-1	-1	60,821,531	-1	-1
Square yards	-1	-1	264,724,549	-1	-1
Value	-1	-1	\$37,655,931	-1	-1
Cotton-growing States:					
Pounds	-1	-1	24,972,134	-1	-1
Square yards	-1	-1	107,416,713	-1	-1
Value	-1	-1	\$12,903,663	-1	-1
New England States:					
Pounds	-1	-1	34,785,262	-1	-1
Square yards	-1	-1	153,071,310	-1	-1
Value	-1	-1	\$24,250,303	-1	-1
<i>Yarns for Sale</i>					
United States:					
Pounds	620,725,267	626,356,804	664,334,562	.9	6.1
Value	\$348,684,605	\$313,060,245	\$253,663,750	-11.4	-18.9
Cotton-growing States:					
Pounds	451,634,879	490,781,024	552,445,185	8.7	12.5
Value	\$232,994,306	\$233,256,323	\$201,566,673	.1	-13.6
New England States:					
Pounds	112,309,662	109,122,875	92,730,062	-3.7	-15.0
Value	\$79,800,563	\$68,178,429	\$46,309,827	-14.6	-32.2

¹ Not reported.



United States Imports and Exports of Cotton Cloth during Calendar Years

Source: United States Department of Commerce

YEAR	Exports (Linear Yards)	Imports (Square Yards)
1900	257,910,508	53,264,507
1901	376,233,960	41,891,885
1902	525,495,309	56,199,911
1903	374,074,192	59,250,082
1904	434,989,686	44,755,238
1905	790,259,024	61,381,256
1906	512,229,720	78,321,752
1907	216,387,642	91,613,881
1908	272,242,179	60,099,151
1909	380,521,971	73,803,398
1910	295,736,336	55,276,921
1911	410,200,201	52,031,130
1912	464,253,126	45,497,927
1913	466,677,252	46,563,568
1914	326,477,889	62,272,013
1915	518,338,302	42,759,670
1916	620,255,896	66,406,638
1917	764,621,892	65,296,802
1918	544,174,574	32,839,569
1919	683,045,326	49,753,481
1920	818,750,954	141,330,861
1921	551,512,942	106,308,379
1922	587,492,532 ¹	142,000,000 ²
1923	464,520,397 ¹	218,970,307 ²
1924	477,815,408 ¹	177,385,654
1925	543,316,851 ¹	109,249,133
1926	513,299,791 ¹	60,680,157
1927	565,020,728 ¹	63,002,117
1928	546,863,310 ¹	61,293,850

¹ Square yards.

² Partly estimated, as imports of cotton cloth were reported in pounds only from September 22, 1922, to March 31, 1923.

United States Imports of Cotton Manufactures, by Classes of Goods, in Terms of Quantity

[Figures are for calendar years]

Source: United States Department of Commerce

This table embraces only those classes of goods which can be expressed in units of quantity. It does not include, necessarily, other classes which cannot be so expressed. The table on imports expressed in terms of value includes all the imports of manufactures of cotton.

	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928
Cotton thread and yarn: Thread and yarns, warps or warp yarn, on beams, in skeins, etc. (pounds)	3,861,968	10,029,045	3,140,102	5,426,987	5,209,354	3,733,422	3,618,657	3,661,164	3,270,658	2,576,913
Sewing thread, crochet, darning and knitting cotton (100 yards)	44,938,565	83,331,972	45,966,524	51,803,837	42,326,041	36,993,528	29,902,175	21,889,760	21,376,539	17,773,152
Cloths: Unbleached (square yards)	19,732,441	50,408,634	16,365,557	23,028,859 ¹	95,186,119 ²	114,729,968	75,397,414	33,114,973	27,451,062	23,514,763
Bleached (square yards)	9,434,881	23,923,795	22,582,543	17,863,670 ¹	14,888,305 ²	5,703,554	4,831,677	5,236,245	10,146,429	11,302,175
Colored, dyed, printed and woven-figured (square yards)	—	—	—	—	108,895,883 ²	55,952,132	29,020,042	22,328,039	25,404,626	26,476,912
Dyed in the piece (square yards)	11,577,432	38,746,021	39,927,187	41,894,470 ¹	—	—	—	—	—	—
Printed (square yards)	3,725,381	13,611,021	8,927,300	11,261,896 ¹	—	—	—	—	—	—
All other (square yards)	5,283,316	14,098,894	18,528,011	15,599,198 ¹	—	—	—	—	—	—
Total cloths (square yards)	49,753,451	140,788,365	106,330,598	109,648,093 ¹	218,970,307 ²	177,385,654	109,249,133	60,680,157	63,002,117	61,293,850
Laces, embroideries, etc., and articles made thereof (except wearing apparel): Embroideries, including edgings, insertings, and galloons (yards)	7,586,004	24,889,980	29,885,458	24,012,109 ¹	—	—	—	—	—	—
Lace window curtains (square yards)	1,426,213	1,426,213	991,634	1,729,452 ¹	1,953,433	1,363,581	1,290,069	1,463,781	2,338,179	1,857,595
Pile fabrics and Terry-woven fabrics (square yards) Tapestries and Jacquard figured upholstery goods (square yards)	433,335	1,038,661	307,582	121,785 ¹	364,516 ²	431,451 ¹	555,201 ¹	—	—	—
Waste or flocks (pounds)	1,244,506	9,280,503	2,846,356	1,675,494 ¹	734,838 ²	1,224,372 ¹	1,943,400 ¹	—	—	—
Wearing apparel: Knit goods: Gloves (dozen pairs)	2,124,663	9,090,767	4,861,682	28,399,261	77,022,332	33,634,041	36,393,055	29,735,862	24,729,741	48,108,091
Hosiery (dozen pairs)	181,239	386,414	1,114,080	1,774,978	1,158,420	1,364,980	1,659,131	2,111,429	2,189,618	2,493,596
All other knit goods (dozens)	65,955	228,285	756,028	1,357,602	611,718	530,939	563,246	497,258	527,909	796,508
All other knit goods (dozens)	52,850	21,951	31,522	10,528	111,337	105,823	85,998	83,698	163,263	83,545

¹ January 1 to September 21, after which new tariff law is in effect.

² Estimated.

³ Not separately classified under new tariff law.

⁴ Quantity not available.

⁵ Pounds only reported after September 21, 1922.

United States Imports of Cotton Manufactures, by Classes of Goods, in Terms of Value

[Figures are for calendar years]

Source: United States Department of Commerce

	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928
Cotton thread and yarn:										
Thread and carded yarns, warps, or warp yarns, on beams, in skeins, etc.	\$7,031,356	\$25,418,196	\$3,752,232	\$6,038,543	\$5,666,886	\$4,488,994	\$5,316,498	\$1,315,168	\$3,752,930	\$3,289,861
Sewing thread, crochet, darning and knitting cotton	1,932,538	3,545,891	1,980,146	2,753,007	3,188,622	3,056,900	3,469,008	2,387,969	1,961,519	1,482,149
Clothes:										
Unbleached	5,402,862	13,748,108	2,916,817	7,933,985	18,287,386	21,889,138	15,422,983	6,838,585	5,157,708	4,752,518
Bleached	3,318,675	9,168,582	5,830,112	6,068,135	3,696,394	1,557,653	1,584,336	1,532,585	2,154,285	2,406,504
Colored, dyed, printed, and woven-figured	5,259,942	16,787,812	11,552,492	25,071,330	25,204,253	14,236,655	9,416,827	7,886,551	8,286,044	8,680,718
Dyed in the piece	1,658,763	6,060,191	3,241,521	-	-	-	-	-	-	-
Printed	2,026,661	5,980,034	5,885,307	-	-	-	-	-	-	-
All other										
Total cloths	\$17,664,903	\$51,753,747	\$29,426,249	\$39,073,450	\$47,188,033	\$37,703,446	\$26,424,126	\$16,257,721	\$15,596,037	\$15,839,740
Lace window curtains	194,520	1,697,903	567,474	767,786	722,878	517,896	473,014	500,486	667,564	515,011
Laces and lace articles, including lace edgings, insertings, and galloons:										
Hand-made	925,608	1,021,173	589,219	2,325,623	2,168,354	2,083,357	1,685,559	982,607	1,265,884	719,395
All other	7,702,498	12,063,224	8,978,147	5,686,109	9,239,862	11,981,227	7,612,553	5,074,568	4,921,560	4,431,949
Nets and nettings	2,469,628	1,946,091	1,815,438	1,405,691	1,139,353	1,038,264	1,109,007	1,047,473	1,403,190	1,721,591
Veils and veillings	23,831	69,681	37,385	-	-	-	-	-	-	-
Total laces, etc.	\$13,909,116	\$24,300,149	\$16,703,583	\$14,451,585	\$17,013,228	\$20,105,883	\$14,602,694	\$12,086,328	\$12,473,957	\$11,252,110
Pile fabrics and Terry-woven fabrics	593,147	1,115,295	256,295	245,887	899,837	933,782	1,177,679	2,385,810	2,796,051	-
Tapestries and Jacquard-figured upholstery goods	426,550	3,355,811	1,781,969	1,145,595	1,196,207	1,947,198	3,264,576	4,345,233	5,467,679	5,068,301
Waste or flocks	216,878	862,542	309,995	2,674,371	6,727,755	3,244,346	3,726,692	2,147,002	1,622,772	3,011,776
Wearing apparel:										
Product of the Philippine Islands	2,796,634	7,349,452	5,154,258	2,353,312	393,735	3,702,744	3,958,870	5,421,516	3,521,176	3,639,278
Knit goods	812,206	2,440,486	4,819,238	7,574,665	5,731,283	5,947,218	7,724,153	8,416,667	8,767,734	11,197,469
Gloves	305,854	1,345,637	3,271,300	5,360,454	4,034,413	4,246,798	5,488,064	6,513,666	6,543,620	8,229,690
Hosiery	135,574	908,829	1,358,434	2,141,124	1,326,247	1,403,318	1,942,447	1,612,447	1,793,428	2,593,261
All other knit goods	370,778	186,020	189,504	73,087	370,623	291,102	293,843	290,554	430,686	374,518
Total manufactures of cotton	\$52,649,218	\$137,431,814	\$75,428,323	\$87,069,809	\$100,154,179	\$90,913,637	\$79,271,008	\$67,150,329	\$96,197,850	\$69,293,700

1 Not separately classified under new tariff law effective September 22, 1922.

2 Not separately classified under new tariff law; included with "nets and nettings."

3 Includes veils and veillings.

4 Not reported.

United States Imports of Cotton Manufactures, by Countries

[Statistics are for years ending June 30 for 1918 and 1919, and for calendar years thereafter]

Source: United States Department of Commerce

COUNTRIES	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927
Europe:										
United Kingdom	\$30,303,244	\$23,192,647	\$52,128,618	\$27,917,368	\$39,003,963	\$51,222,189	\$42,447,766	\$34,177,328	\$22,038,371	\$19,869,860
Germany	-	- ¹	4,847,137	7,417,485	12,352,330	17,087,150	12,302,445	13,834,711	14,213,079	14,251,278
France	3,358,727	3,555,197	10,572,118	9,441,632	11,267,774	13,713,905	16,402,486	12,361,148	10,296,808	10,967,913
Switzerland	2,365,277	1,326,133	17,261,975	15,177,834	11,188,442	5,968,020	4,414,537	3,188,582	3,246,417	4,528,156
Belgium	1,431	621	861,740	424,198	692,459	1,045,021	1,280,353	1,187,923	1,263,087	1,943,748
Austria	-	- ¹	- ¹	-	89,856	145,247	166,058	272,977	339,379	341,926
Italy	588,030	266,191	1,441,069	800,992	613,800	1,236,087	1,578,784	1,543,877	1,920,206	1,896,532
Spain	68,017	23,754	60,055	67,940	55,748	102,192	54,052	18,026	27,451	35,989
Czechoslovakia	- ²	- ²	387,953	329,938	697,288	967,748	985,103	1,478,106	2,368,344	2,602,287
Turkey (including Asiatic Turkey)	-	- ¹	104,803	55,328	22,418	53,775	18,682	10,005	18,093	33,742
All other Europe	186,733	304,245	2,220,696	958,069	1,030,848	925,430	832,894	533,781	633,592	420,585
America:										
Canada	2,679,683	2,078,544	248,108	344,590	211,722	263,439	135,949	252,481	188,397	208,098
Mexico	15,250	11,035	454,352	78,365	22,146	100,897	46,430	138,186	69,143	164,447
All other America	46,063	3,037	12,134	8,854	20,088	30,469	48,016	30,093	76,240	19,944
Japan	4,280,937	1,363,512	7,062,960	3,731,293	4,157,448	3,894,760	3,123,072	3,222,713	2,726,686	2,867,956
China	709,279	456,128	2,118,254	3,038,915	2,846,280	2,548,556	2,404,848	2,123,500	1,580,349	1,836,308
British India	18,192	5,548	32,101	71,627	188,208	212,696	207,445	451,219	295,889	250,525
All other countries	70,298	2,176,131	7,769,274	5,567,067	2,608,991	635,598	4,477,455	4,440,349	5,857,798	3,957,956
Total	\$44,751,181	\$34,762,723	\$137,583,347	\$75,430,495	\$87,069,809	\$100,153,179	\$90,913,641	\$79,271,008	\$67,159,329	\$66,197,850

¹ Included in "All other Europe."

² Included in Austria.

United States Imports of Specified Cloths¹

Month	Laws, Organ- dies, and Nansooks, etc. (Square Yards)	Broadcloths and Poplins (Square Yards)	Sateens woven with not more than 7 Harnesses (Square Yards)	Sateens woven with 8 or more Harnesses (Square Yards)	Voiles (Square Yards)	Crepes (Square Yards)	Ginghams (Square Yards)	Ratines (Square Yards)	Jacquard Cloths Other than Swivels or Lappets (Square Yds.)	Dotted Swisses (Square Yards)	Total
1927											
January	1,470,509	1,533,797	95,081	107,126	191,638	152,568	58,690	442	68,166	18,988	3,717,005
February	1,404,871	1,099,567	418,633	196,009	207,488	150,431	62,233	4,332	125,862	21,716	3,091,142
March	2,091,109	1,232,788	775,335	183,586	222,508	121,686	64,848	1,399	94,288	72,825	4,860,372
April	1,909,130	1,455,462	523,081	210,992	322,675	88,193	15,232	—	83,896	59,682	4,668,343
May	2,610,924	1,800,802	615,104	801,448	285,045	76,564	14,550	—	120,683	75,129	6,400,309
June	1,630,951	929,114	734,703	236,511	606,781	64,234	33,738	8,509	177,425	32,553	4,454,519
July	1,081,154	937,732	408,509	214,499	42,739	57,082	8,664	—	84,809	14,203	2,849,391
August	2,596,099	1,400,427	406,819	200,549	96,618	18,088	13,816	6,701	220,023	8,299	4,947,439
September	1,550,807	1,223,319	446,527	293,633	84,776	73,780	25,853	1,412	142,577	25,156	3,867,840
October	1,710,693	1,301,528	451,989	277,309	104,128	42,943	49,390	1,665	90,530	10,683	4,040,858
November	2,063,638	1,302,724	505,995	282,221	115,155	42,458	60,233	201	213,982	8,461	4,595,068
December	2,836,261	1,340,276	211,828	300,751	253,276	73,906	61,414	—	156,142	21,030	5,254,894
Total	23,319,255	15,870,677	5,591,774	2,784,506	2,496,072	961,933	469,638	24,661	1,575,907	368,725	53,463,148
1928											
January	2,801,509	1,241,198	412,511	359,522	205,172	87,862	20,414	9,418	132,262	45,222	5,315,090
February	2,726,541	1,517,917	352,548	234,119	297,069	35,570	57,616	1,613	151,922	38,033	5,441,488
March	2,958,089	1,600,101	570,593	173,272	325,630	151,920	45,296	1,439	660,434	48,695	6,535,460
April	2,823,195	1,249,096	567,571	304,017	221,800	65,715	177,770	2,848	1,009,161	68,837	6,493,070
May	2,480,970	1,063,417	457,234	250,629	97,894	112,036	36,403	12,736	437,721	37,583	5,006,625
June	899,881	736,969	687,470	155,498	33,269	51,437	17,313	2,848	290,251	35,043	2,816,067
July	955,070	630,732	371,732	85,101	42,773	20,239	10,888	17,313	142,330	25,639	2,323,908
August	1,044,390	1,302,479	721,593	145,758	45,268	16,448	19,413	8,209	197,061	15,713	3,508,070
September	1,102,600	886,044	459,309	115,645	31,736	49,987	14,100	3,886	175,546	4,600	2,843,459
October	1,097,292	1,095,813	572,164	129,791	68,807	41,865	10,565	89	107,013	9,547	3,132,917
November	1,178,560	1,273,163	314,173	160,465	36,522	72,710	19,226	—	139,136	108,657	3,362,701
December	1,388,175	891,136	295,308	446,991	92,887	22,052	34,694	1,044	177,438	26,478	3,376,263
Total	21,456,272	13,508,065	5,682,197	2,560,808	1,499,487	748,841	452,590	69,483	3,640,275	467,047	50,085,065

¹ These statistics do not include all types of cloths imported, and are collected at only the more important ports of the United States. The figures, however, amount to practically 90 per cent of the cloth imports for the period covered.

Total United States Imports for Consumption of Countable Cotton Cloths during the Years 1926, 1927 and 1928

Bureau of Foreign and Domestic Commerce

AVERAGE YARN NUMBER	1926			1927			1928		
	Square Yards	Pounds	Dollars	Square Yards	Pounds	Dollars	Square Yards	Pounds	Dollars
1-10	1,757,883	711,862	582,566	1,764,544	745,782	534,952	1,314,522	582,633	518,097
11-20	3,514,785	1,054,164	1,512,154	3,702,347	1,135,439	1,543,380	4,271,153	1,314,684	1,740,787
21-30	8,631,359	2,103,801	1,836,299	6,758,285	1,725,398	1,519,299	6,101,718	1,549,046	1,432,928
31-40	5,896,345	1,334,791	1,360,534	4,076,839	938,868	1,074,636	3,893,178	936,121	1,118,205
41-50	7,053,722	1,622,696	1,878,173	4,599,774	1,034,377	1,262,523	3,403,528	767,832	1,102,079
51-60	6,632,429	1,464,590	1,894,809	5,969,024	1,313,269	1,614,316	5,874,785	1,136,788	1,398,421
61-70	3,422,786	611,449	991,323	5,759,996	961,264	1,313,128	5,191,213	876,592	1,292,574
71-80	9,051,119	1,449,266	2,463,578	11,123,505	1,544,925	2,682,002	11,167,991	1,547,699	2,851,285
81-90	5,587,663	1,006,772	1,682,507	7,885,496	1,219,398	1,884,851	5,563,297	821,396	1,435,423
91-100	8,308,518	1,007,809	1,777,965	8,184,802	861,925	1,591,830	7,910,203	790,428	1,582,255
101-110	561,925	63,986	148,668	2,425,734	239,753	502,777	3,173,690	313,678	639,466
111-120	114,633	11,675	28,443	379,083	32,613	78,854	331,150	29,287	69,719
121-130	383,838	36,819	88,063	443,573	38,994	102,821	593,233	55,308	155,089
131-140	49,610	3,752	9,028	446,231	30,173	73,967	60,885	4,412	12,685
141-150	15,143	1,504	5,107	17,925	1,693	5,426	18,439	2,005	5,922
151-160	5,971	330	1,382	11,053	775	2,571	14,780	1,371	4,608
161-170	11,585	1,263	2,710	6,356	530	2,263	5,162	340	948
171-180	809	145	416	3,929	284	833	2,179	151	381
181-190	—	—	—	1,305	70	274	—	—	—
191-200	700	140	310	3,153	219	967	2,450	450	2,493
Above 200	—	—	—	26	15	20	1,855	468	442
Total	61,000,823	12,486,814	16,264,035	63,562,980	11,825,764	15,792,290	58,805,411	10,730,689	15,363,807

United States Imports for Consumption of Countable Cotton Cloths during the Years 1927 and 1928 — (Concluded)

Bureau of Foreign and Domestic Commerce

AVERAGE YARN NUMBER	WOVEN WITH DROP BOXES					
	1927			1928		
	Square Yards	Pounds	Dollars	Square Yards	Pounds	Dollars
1 to 10	16,817	7,534	5,240	18,903	7,998	6,077
11 to 20	36,589	13,756	20,368	29,539	10,311	21,252
21 to 30	116,734	23,444	28,390	22,142	6,480	11,111
31 to 40	48,694	12,977	25,514	31,760	10,373	18,662
41 to 50	24,231	4,730	9,152	14,836	3,615	7,723
51 to 60	8,684	2,247	5,293	9,962	2,137	5,835
61 to 70	12,132	2,664	5,684	18,252	2,888	8,298
71 to 80	98,045	17,359	42,118	57,131	9,173	22,953
81 to 90	13,105	2,030	6,284	30,520	3,656	11,480
91 to 100	16,186	2,412	6,843	10,742	1,620	5,478
101 to 110	4,951	481	1,590	2,073	374	1,012
111 to 120	2,205	202	915	1,271	157	634
121 to 130	909	99	609	1,481	110	396
131 to 140	—	—	—	—	—	—
141 to 150	—	—	—	—	—	—
151 to 160	—	—	—	—	—	—
161 to 170	—	—	—	—	—	—
171 to 180	900	110	305	—	—	—
181 to 190	—	—	—	—	—	—
191 to 200	—	—	—	—	—	—
Above 200	—	—	—	—	—	—
Total	400,182	90,045	158,305	248,612	58,892	120,911

United States Exports of Cotton Manufactures, by Classes of Goods, in Terms of Quantity

[Figures are for calendar years]

Source: United States Department of Commerce

This table embraces only those classes of goods which can be expressed in units of quantity. It does not include, necessarily, other classes which cannot be so expressed.

	1919	1920	1921	1922 ¹	1923 ¹	1924 ¹	1925 ¹	1926 ¹	1927 ¹	1928 ¹
Cloths (running yards):										
Duck:										
Unbleached	9,128,503	13,183,255	5,890,284	8,277,695	6,880,282	7,180,584	9,023,964	9,166,085	11,927,295	9,904,998
Bleached	4,269,404	4,841,160	932,532	1,852,514	1,059,393	1,985,747	1,717,588	1,252,679	1,926,711	1,935,005
Colored	1,301,202	1,570,475	604,676	809,476	940,142	863,564	816,064	883,100	1,307,430	1,367,148
All other duck	-	-	-	-	-	-	-	-	-	639,518
All other cloths:										
Unbleached	142,885,303	138,343,302	218,367,315	177,172,182	103,286,881	110,921,404	129,581,133	119,607,693	125,718,833	124,260,593
Bleached	126,349,050	184,368,835	83,676,191	99,681,739	77,635,357	82,458,805	92,937,823	98,358,648	87,300,900	96,230,463
Colored	-	-	-	-	-	-	-	-	-	306,115,090
Printed	137,653,935	159,132,993	90,327,326	113,319,448	102,202,243	97,262,828	111,197,504	99,149,736	117,334,185	-
Dyed in the piece	156,051,890	178,489,420	83,913,351	101,467,669	99,577,461	93,955,175	107,344,997	100,437,189	120,243,834	-
Dyed in the yarn	105,394,039	138,821,514	67,891,267	84,911,809	72,662,000	84,087,801	90,697,978	82,441,583	94,283,169	-
Tire fabrics	-	-	-	-	-	-	-	2,003,078	4,978,051	6,410,495
Total cloths	683,045,326	818,750,954	551,512,942	587,492,532	464,293,759	477,815,408	543,316,851	513,299,781	565,020,728	546,863,310
Mill waste (pounds)										
Mill waste (pounds)	57,317,920	57,877,150	39,002,394	58,572,181	55,986,852	65,616,568	77,048,181	66,788,365	96,521,824	63,388,630
Rags (except paper stock) (pounds)	-	6,817,037	6,880,907	8,089,668	15,252,057	18,705,515	19,068,117	12,589,917	15,407,476	19,198,924
Hosiery (dozen pairs)	9,477,338	11,575,655	2,508,285	4,792,604	5,159,750	4,825,563	5,534,222	4,744,584	4,337,435	3,875,417
Yarn (pounds)	20,699,124	24,099,399	14,294,176	15,503,860	12,081,384	13,673,569	21,891,810	24,036,636	28,540,555	26,620,292

¹ Cloth exports are in square yards.

NOTE. — Where no figures are given for the earlier years the items were either not compiled or not separately classified in those years. If compiled, they were grouped with other items shown in the table. It should not be assumed that there were no exports of such items if no figures are given for these items separately.

United States Exports of Cotton Manufactures, by Classes of Goods, in Terms of Value

[Figures are for calendar years]

Source: United States Department of Commerce

	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928
Blankets										
Cloths:										
Ducks:										
Unbleached	\$7,469,640	\$10,753,578	\$2,818,206	\$3,508,982	\$3,216,638	\$3,353,931	\$1,149,830	\$3,412,879	\$3,756,491	\$3,315,532
Bleached	3,037,108	2,892,720	399,373	613,239	475,947	494,486	616,670	452,768	610,132	535,324
Colored	718,083	882,682	262,836	293,532	372,185	325,816	298,066	317,993	373,672	451,377
All other ducks	-	-	-	-	-	-	-	-	-	451,457
All other cloths:										
Unbleached	\$23,591,461	\$32,020,596	\$19,669,270	\$19,296,925	\$13,731,328	\$13,943,031	\$15,095,925	\$12,454,570	\$11,355,802	\$11,710,911
Bleached	26,215,748	50,341,463	11,702,965	13,871,473	12,287,691	12,075,860	13,352,271	12,370,611	9,983,581	11,096,116
Colored	-	-	-	-	-	-	-	-	-	49,075,060
Printed	23,205,902	38,584,777	10,575,693	14,802,468	15,106,072	13,925,536	14,921,031	14,046,107	13,769,876	-
Dyed in the piece	58,834,461	58,834,461	13,305,740	13,111,287	13,679,792	18,082,158	20,320,400	17,614,723	19,581,783	-
Dyed in the yarn	27,095,972	43,224,280	10,640,069	14,789,205	14,355,149	16,006,439	16,257,456	13,693,358	13,523,772	-
Tire fabric	-	-	-	-	-	-	-	849,762	1,799,652	2,636,751
Total cloths	\$151,997,817	\$238,153,557	\$71,573,875	\$85,232,112	\$79,357,337	\$78,204,877	\$85,011,749	\$74,588,981	\$76,735,711	\$79,295,528
Faces and embroideries										
Mill waste	\$1,731,675	\$1,029,409	\$611,506	\$359,634	\$319,454	\$205,088	\$310,142	\$257,862	\$216,155	\$310,820
Rags (except paper stock)	12,411,704	12,368,596	3,678,527	6,067,303	7,669,698	7,616,188	8,720,584	6,077,523	8,650,062	7,117,012
Thread, sewing, crochet, etc.	641,754	514,557	296,420	482,737	987,711	1,492,711	1,595,516	850,116	1,022,294	1,428,357
Wearing apparel:	4,367,762	4,471,617	2,055,328	2,034,732	2,065,520	1,772,668	1,183,357	1,439,862	1,285,558	1,185,557
Collars and cuffs	771,219	816,142	341,789	348,646	463,415	770,823	683,393	570,207	524,524	424,725
Corsets	2,880,858	3,583,767	1,695,555	1,924,036	1,745,581	1,902,745	-	-	-	-
Knit goods	-	-	-	-	-	-	-	-	-	-
Hosiery	26,882,566	37,879,665	6,232,198	9,221,834	10,525,183	9,095,505	10,494,361	8,407,326	7,326,505	6,728,216
Underwear	8,602,293	14,067,839	3,602,493	6,185,980	5,025,008	3,740,963	3,827,662	3,214,167	2,540,531	2,107,107
All other knit goods	1,508,995	2,510,558	427,773	546,583	530,158	611,221	677,121	765,285	624,112	619,756
Yarn	14,488,630	20,014,949	5,679,075	6,815,664	6,632,672	7,423,967	11,896,201	12,131,925	14,323,824	15,610,874
Total manufactures of cotton	\$273,115,704	\$402,041,277	\$117,234,542	\$138,701,617	\$138,045,354	\$132,710,741	\$145,239,365	\$128,877,008	\$133,186,101	\$134,651,343

NOTE.—Where no figures are given for the earlier years the items were either not compiled or not separately classified in those years. If compiled, they were grouped with other items shown in the table. It should not be assumed that there were no exports of such items if no figures are given for these items separately.

Conversely figures for certain classes of goods (as for all other cloths, colored) are discontinued when this classification is broken up into several sub-classifications, all other cloths, colored, being subdivided into printed, dyed in the piece, and dyed in the yarn.

United States Exports of Cotton Manufactures, by Countries

[Statistics are for years ending June 30, 1918 and 1919, and for calendar years thereafter]

Source: United States Department of Commerce

COUNTRIES	1918	1919	1920	1921	1922	1923	1924	1925	1926	1927
Europe:										
United Kingdom	\$10,070,789	\$12,796,495	\$25,900,099	\$6,884,979	\$11,351,039	\$9,232,334	\$8,138,680	\$10,077,802	\$1,632,046	\$1,346,048
Germany	-	-	1,964,236	1,522,910	1,143,910	1,138,823	1,827,423	2,535,718	216,843	232,962
All other Europe	9,489,084	38,907,913	34,191,875	11,353,970	7,004,752	4,935,250	3,570,284	5,535,374	3,525,085	2,991,679
America:										
Canada	27,981,121	30,555,383	40,526,138	18,207,778	20,540,062	19,204,728	16,384,203	17,675,268	14,184,909	15,205,082
Mexico	18,606,003	11,057,043	12,452,319	13,703,906	6,795,751	6,701,495	7,272,965	7,937,064	6,030,076	3,942,293
Central America	4,877,986	10,123,223	19,064,743	8,800,540	9,812,808	9,882,329	11,530,092	11,518,823	9,174,796	9,783,608
British West Indies (including Bermuda)	3,506,299	3,524,740	7,052,030	3,237,420	3,383,094	2,774,123	2,291,097	3,163,808	2,700,885	2,947,752
Cuba	17,728,667	16,819,419	73,364,132	6,744,018	11,464,303	22,880,293	20,881,923	16,020,118	14,887,479	14,289,032
Haiti	2,696,510	4,533,777	5,779,045	2,412,481	3,358,270	4,031,255	3,934,637	4,910,020	2,371,706	3,449,178
All other North America	5,668,253	3,279,006	14,828,026	2,116,574	3,122,172	4,087,780	4,911,952	5,608,113	3,960,127	5,361,896
Brazil	3,597,927	5,859,310	5,089,804	567,705	1,015,537	977,277	1,964,948	2,451,920	1,089,935	1,497,727
Chile	7,333,773	10,380,453	7,288,468	2,786,329	4,775,339	5,337,557	4,473,085	4,830,039	3,807,543	3,168,135
Colombia	2,355,123	3,351,124	25,308,682	2,190,974	5,765,011	4,734,691	5,906,986	8,004,566	5,992,227	4,652,783
Peru	2,728,782	2,178,639	6,128,972	1,099,481	1,957,994	2,127,413	1,897,225	1,305,769	1,630,399	1,242,834
Venezuela	1,012,670	1,482,650	10,303,687	544,331	882,633	1,463,983	2,311,810	2,376,644	1,814,872	1,501,372
All other South America	21,761,643	34,956,963	41,657,994	12,043,946	17,357,471	14,698,034	14,215,190	17,429,241	7,986,918	8,578,660
Asia and Oceania:										
China	1,217,295	2,054,983	9,201,386	2,576,539	2,248,349	579,607	526,805	1,408,286	530,209	320,950
British India	1,034,590	833,305	4,829,635	2,639,733	851,521	826,455	1,177,331	1,850,773	1,906,064	2,437,814
British Australasia	3,654,326	12,601,393	14,361,911	3,550,761	5,144,867	3,853,327	2,600,055	4,066,508	3,881,470	3,405,493
Aden	173,986	206,821	1,141,240	1,334,537	1,433,096	742,835	417,164	417,164	3,860,158	268,410
Philippine Islands	17,262,881	17,179,046	23,526,230	8,022,385	14,263,146	13,250,098	11,357,251	13,245,865	15,279,067	12,950,086
All other Asia and Oceania	1,747,806	4,832,086	12,068,056	2,668,763	1,728,391	1,878,240	1,214,900	1,542,624	1,241,534	1,617,717
Africa	2,869,709	3,691,894	5,114,107	1,740,982	3,093,427	2,995,627	3,747,592	4,517,825	4,682,599	4,801,658
Total	\$169,378,223	\$222,206,566	\$402,041,277	\$117,234,542	\$138,701,617	\$138,045,354	\$132,710,741	\$148,239,365	\$101,997,547	\$109,313,169

¹ Included in "All other Europe."

British Exports of Cotton Cloth and Cotton Yarn

Source: British Board of Trade

YEAR	Cloth (Yards)	Yarn (Pounds)
1900	5,031,727,000	158,272,900
1901	5,364,600,000	169,658,000
1902	5,331,552,200	166,360,900
1903	5,157,315,500	150,758,100
1904	5,591,822,600	163,901,400
1905	6,196,783,900	205,100,500
1906	6,260,771,400	207,378,700
1907	6,297,707,900	241,076,700
1908	5,530,808,500	214,762,200
1909	5,722,158,100	215,223,400
1910	6,017,625,200	191,629,100
1911	6,653,672,300	223,834,400
1912	6,912,919,700	243,850,400
1913	7,075,252,000	210,099,000
1914	5,735,744,500	178,496,800
1915	4,748,452,900	188,169,200
1916	5,254,222,700	172,170,600
1917	4,978,237,900	133,151,300
1918	3,699,252,300	101,711,400
1919	3,523,660,000	162,816,600
1920	4,435,405,000	147,432,400
1921	2,902,288,900	145,894,900
1922	4,183,729,100	201,953,000
1923	4,140,231,900	145,017,400
1924	4,443,959,500	163,056,400
1925	4,435,617,800	189,531,200
1926	3,834,447,700	168,543,200
1927	4,117,683,000	200,502,200
1928	3,866,592,000	169,211,600

High and Low Prices of Middling Upland Spot Cotton in New York

[In cents per pound]

Source: New York Cotton Exchange

The years as given are the official cotton seasons. Through 1913-14 the seasons were from September 1 to August 31. Starting with 1914-15 they have been from August 1 to July 31.

SEASON	High	Low
1902-03	13.50	8.30
1903-04	17.25	9.50
1904-05	11.65	6.85
1905-06	12.60	9.85
1906-07	13.50	9.60
1907-08	13.55	9.90
1908-09	13.15	9.00
1909-10	16.45	12.40
1910-11	19.75	12.30
1911-12	13.40	9.20
1912-13	13.40	10.75
1913-14	14.50	11.90
1914-15	10.60	7.25
1915-16	13.45	9.20
1916-17	27.65	13.35
1917-18	36.00	21.20
1918-19	38.20	25.00
1919-20	43.75	28.85
1920-21	40.00	10.85
1921-22	23.75	12.80
1922-23	31.30	20.35
1923-24	37.65	23.50
1924-25	31.50	23.41
1925-26	24.75	17.85
1926-27	19.20	12.15
1927-28	23.90	17.00

Monthly High and Low Prices of Middling Upland Spot Cotton at New York

Source: New York Cotton Exchange

	1920-21		1921-22		1922-23		1923-24		1924-25		1925-26		1926-27		1927-28	
	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low	High	Low
August	40.00	31.75	16.60	12.80	23.20	20.35	26.35	23.50	31.50	25.90	24.65	22.20	19.20	17.70	23.25	17.00
September	32.25	25.50	21.55	17.50	22.25	20.35	30.75	25.95	26.10	22.15	24.75	22.35	18.95	14.70	23.90	20.55
October	25.25	20.50	21.35	18.50	24.35	20.45	31.80	28.20	26.90	22.50	23.55	19.40	14.30	12.45	21.80	19.90
November	22.50	15.50	19.00	16.70	26.80	24.45	37.60	31.25	24.85	23.60	21.65	19.90	13.10	12.60	21.30	19.30
December	16.70	14.50	19.45	17.50	26.80	24.55	37.65	33.70	24.90	23.15	21.10	19.15	13.10	12.15	20.15	18.60
January	18.25	14.30	19.05	16.45	28.75	26.45	35.70	32.90	24.30	23.45	21.25	20.40	13.70	12.80	19.85	17.95
February	14.20	11.25	18.85	16.85	30.15	27.40	34.85	29.00	25.35	24.25	21.00	19.75	14.50	13.65	19.05	17.45
March	12.55	11.20	18.70	17.80	31.30	28.75	29.25	26.80	26.05	24.60	19.60	19.05	14.85	14.00	20.00	18.70
April	12.45	11.65	18.35	17.75	30.05	27.30	31.65	28.70	24.95	24.00	19.45	18.75	15.35	14.30	22.15	19.80
May	13.15	12.45	21.80	18.95	28.90	25.30	32.85	30.05	24.40	22.20	19.35	18.70	17.05	15.45	22.30	20.95
June	12.95	10.85	23.30	20.75	29.90	27.25	32.75	28.75	24.80	23.35	18.85	18.00	17.10	16.35	23.10	20.65
July	12.85	11.95	23.75	21.45	28.05	22.45	35.30	29.60	25.90	23.80	19.35	17.85	18.95	17.05	22.85	20.45
Season	40.00	10.85	23.75	12.80	31.30	20.35	37.65	23.50	31.50	22.15	24.75	17.85	19.20	12.15	23.90	17.00

Highest and Lowest Prices paid for the Principal

DURING MONTH OF —	JANUARY DELIVERY		MARCH DELIVERY		MAY DELIVERY		JULY DELIVERY	
	High	Low	High	Low	High	Low	High	Low
<i>Season of 1925-26</i>								
August, 1925	23.95	21.57	24.20	21.88	24.48	22.18	24.31	22.54
September	24.40	21.65	24.68	21.95	25.00	22.25	24.72	22.23
October	22.64	18.11	22.90	18.34	23.10	18.50	22.77	18.13
November	20.47	18.29	20.53	18.58	20.36	18.67	19.90	18.26
December	20.20	18.30	19.94	18.62	19.48	18.36	19.14	18.00
January, 1926	20.35	19.80	20.59	19.68	20.00	19.28	19.30	18.74
February	17.94	17.16	20.50	19.25	19.92	18.70	19.20	18.08
March	17.60	16.85	19.46	18.83	19.09	18.27	18.64	17.65
April	17.35	16.60	17.40	16.72	19.00	18.51	18.44	17.95
May	17.75	16.80	17.91	17.01	19.14	18.54	18.69	18.09
June	17.59	15.97	17.74	16.16	17.75	16.30	18.46	17.45
July	18.03	15.90	18.21	16.08	18.36	16.25	18.82	17.50
Season	24.40	15.90	24.68	16.08	25.00	16.25	24.72	17.45
<i>Season of 1926-27</i>								
August, 1926	18.12	16.10	18.26	16.29	18.37	16.45	18.20	16.40
September	18.28	14.24	18.50	14.47	18.65	14.70	18.51	14.86
October	14.17	12.10	14.37	12.35	14.57	12.56	14.70	12.75
November	12.81	12.26	13.02	12.50	13.24	12.72	13.45	12.91
December	12.80	11.55	12.96	11.80	13.15	12.02	13.30	12.25
January, 1927	13.47	12.45	13.58	12.62	13.80	12.83	13.98	13.01
February	14.90	14.13	14.20	13.25	14.35	13.46	14.51	13.67
March	15.02	14.11	14.68	13.51	14.70	13.62	14.79	13.75
April	15.96	14.63	16.12	14.75	15.17	13.97	15.42	14.18
May	17.52	15.72	17.70	15.88	16.19	14.97	16.84	15.23
June	17.70	16.72	17.91	16.88	18.03	17.05	17.05	16.05
July	19.47	17.23	19.65	17.42	19.80	17.53	18.30	16.74
Season	19.47	11.55	19.65	11.80	19.80	12.02	18.51	12.25
<i>Season of 1927-28</i>								
August, 1927	23.68	17.23	23.84	17.47	23.90	17.62	23.49	17.75
September	24.77	20.25	24.99	20.52	25.07	20.74	24.70	20.70
October	21.98	19.48	22.19	19.67	22.37	19.84	22.22	19.74
November	21.08	18.78	21.25	19.00	21.34	19.19	21.19	19.20
December	19.71	17.90	19.81	18.10	19.96	18.30	19.94	18.30
January, 1928	19.60	18.05	19.68	17.17	19.83	17.27	19.64	17.17
February	18.44	17.00	18.60	16.87	18.77	17.06	18.78	17.10
March	19.02	17.75	19.49	18.15	19.60	18.33	19.49	18.21
April	21.17	18.50	21.17	18.52	21.71	19.12	21.49	18.98
May	21.53	20.11	21.57	20.10	22.08	20.57	21.85	20.27
June	22.45	19.85	22.36	19.81	22.30	19.79	22.70	20.09
July	22.45	19.90	22.34	19.91	22.17	19.86	22.50	20.18
Season	24.77	17.00	24.99	16.87	25.07	17.06	24.70	17.10

Options on the New York Cotton Exchange

AUGUST DELIVERY		SEPTEMBER DELIVERY		OCTOBER DELIVERY		DECEMBER DELIVERY		DURING MONTH OF —
High	Low	High	Low	High	Low	High	Low	
23.25	23.00	23.50	22.42	24.45	21.85	24.50	22.10	<i>Season of 1925-26</i>
—	—	24.05	24.05	24.75	21.95	25.12	22.20	August, 1925
21.05	18.50	22.00	18.75	23.30	21.20	23.37	18.75	September
19.45	18.52	19.45	18.45	19.70	18.05	21.42	18.96	October
18.38	18.00	18.53	17.80	18.55	17.64	20.58	19.36	November
—	—	18.50	18.50	18.53	18.02	18.50	17.77	December
18.78	18.60	18.45	17.86	18.37	17.50	18.03	17.20	January, 1926
18.30	17.33	17.62	17.48	18.02	17.15	17.70	16.83	February
17.97	17.61	17.54	17.00	17.78	17.00	17.45	16.66	March
18.19	17.80	17.63	17.28	17.80	17.16	17.79	16.90	April
17.40	16.58	17.50	16.20	17.70	16.14	17.65	16.16	May
18.35	16.90	17.88	16.72	18.03	16.02	17.94	16.00	June
								July
23.25	16.58	24.05	16.20	24.75	16.02	25.12	16.00	Season
								<i>Season of 1926-27</i>
18.45	16.75	18.08	16.96	18.18	16.15	18.12	16.08	August, 1926
—	—	18.06	17.52	18.05	13.91	18.25	14.15	September
14.25	13.32	14.50	13.15	14.22	12.60	14.25	12.00	October
13.22	13.22	13.56	13.18	13.75	13.05	12.73	12.10	November
—	—	13.42	12.50	13.45	12.46	13.16	11.85	December
13.91	13.03	14.10	13.77	14.18	13.21	14.34	13.36	January, 1927
14.44	14.17	14.60	13.97	14.69	13.88	14.86	14.03	February
14.88	13.93	14.60	13.98	14.91	13.92	15.01	14.07	March
15.48	14.55	15.63	14.43	15.72	14.40	15.91	14.59	April
15.60	15.39	17.00	15.72	17.23	15.51	17.46	15.69	May
16.95	16.68	17.11	16.35	17.45	16.41	17.65	16.64	June
18.55	16.93	18.87	17.08	19.15	16.97	19.39	17.17	July
18.55	13.03	18.87	12.50	19.15	12.46	19.39	11.85	Season
								<i>Season of 1927-28</i>
20.51	16.98	21.95	17.00	23.40	16.95	23.70	17.18	August, 1927
—	—	22.75	20.00	24.40	19.90	24.72	20.23	September
—	—	21.10	19.20	21.55	19.33	21.89	19.42	October
20.86	20.86	20.20	19.20	20.20	18.75	21.02	18.78	November
18.78	18.78	19.35	18.38	19.49	18.00	19.62	17.96	December
17.89	17.85	18.00	17.45	19.05	17.05	19.05	17.00	January, 1928
18.74	17.65	17.92	17.52	18.56	16.96	18.50	16.99	February
19.07	18.30	19.20	18.79	19.15	17.83	19.03	17.77	March
21.08	19.77	21.22	19.27	21.43	18.67	21.25	18.54	April
21.18	21.00	21.75	20.41	21.78	20.36	21.64	20.24	May
22.50	20.70	22.30	20.60	22.87	20.13	22.70	19.98	June
22.20	20.34	—	—	22.80	20.15	22.63	19.97	July
22.50	16.98	22.75	17.00	24.40	16.95	24.72	16.99	Season

Prices of Extra Staple Cotton, 1928

Source: Daily News Record

		AMERICAN STAPLES ¹			EGYPTIANS ¹			Pima ² No. 2	Peru- vian ¹ Mitafifi	Tanguis ³ Strict Middling	New York Middling Spots
		1½-Inch	1¾-Inch	1½-Inch	Uppers Medium	Saks'— Medium	Saks'— High Grade				
January	3	24½-25	26½-27½	28½	27-28	34½-35½	37½	40	23½	25½	19.55
January	9	24-24½	25½-26½	28½	28½-30	36-37	38	40	23½	25	19.60
January	13	23½-24½	25½-26½	28	29½-30½	35½-36	38	40	23½	25	19.45
January	17	23-24	25½-26½	27½	29½-30½	35½-36½	37½	40	23½	2½	19.10
January	30	22½-23	23½-24	27	28-29	36-37	38	41	22½	24½	18.05
February	3	22½-22¾	23½-24	26½	27½-28	35½-36	37½	40	22½	24½	17.65
February	7	21-21½	22½-23½	25½	26-27	36-37	38	40	23	24½	18.05
February	15	22-22¾	23½-24½	26½	27½	36½-37½	38½	41	23	24½	18.45
February	20	22-23	23½-24½	26	26½-27½	34½-35½	37	41	22	25	18.60
February	27	23-23½	24½-25½	27	27-28	36½-37½	38½	41	22	24½	19.00
March	6	23½-24½	24½-25½	27½	27½-29	37-38	39	41	22½	25	18.90
March	13	23-23½	24-25	28	27½-28	37½-38½	42	43	22½	24½	19.05
March	22	23½-24½	24½-25½	28	29½-30½	38½-40½	42	43	23	25	19.80
March	28	24-24½	24½-25½	28½	31-32	41-43	45	47	23	25½	19.90
March	31	23½-24	24½-25½	28½	31-32	41-42½	45	47	23	25½	19.70
April	5	23½-24	24½-25½	28	30½-31½	41½-43	45	47	23	25	19.85
April	11	23-24	24½-25	28	31-32½	42-43½	44	48	23½	25½	20.20
April	16	24-24½	25½-26	28	30-31½	44-45½	46	49	24½	26	20.35
April	20	24-24½	25½-26	28	30½-31½	44-45	46	49	24½	26	20.45
April	27	24½-25	25½-26½	29	30½-32	42-43½	45	49	25	26½	21.85
May	4	24½-25½	25½-26	28½	31-32	42½-43½	44½	49	25½	27	21.35
May	7	24-24½	25½-26	29½	30½-31	43-44½	45	50	26	27½	21.95
May	12	24½-24¾	25½-26½	29	30½-31½	42½-44	45	50	26	27½	21.85
May	18	25-25½	26½-26¾	30	31½-33½	44-45½	47	50	25	27	21.70
May	25	24½-24¾	25½-26½	29	30½-31½	40½-41½	43	50	25	27½	21.10
June	1	23½-24½	25-26	28½	30½-31	43-44	45	50	25½	28	21.05
June	8	23½-24½	25-25½	28½	30½-31	43-44	45	50	25½	28	21.05
June	15	23½-24½	25-25½	28½	30½-31	43-44	45	50	25½	27	21.15
June	22	24-24½	25½-25¾	28½	30½-31½	40½-42	45	50	25½	27½	21.80
June	29	24½-26	26½-27½	29½	30-31	41-42	44	50	25½	27½	22.80

¹ New Bedford basis.² New England basis.³ New York basis.

Prices of Extra Staple Cotton, 1928 — (Concluded)

Source: Daily News Record

AMERICAN STAPLES ¹			EGYPTIANS ¹			Pima ² No. 2	Peru- vian ¹ Mitafi	Tanguis ² Strict Middling	New York Middling Spot	
1½-Inch	1¾-Inch	1½-Inch	Uppers Medium	Saks'— Medium	Saks'— High Grade					
July 2	26½-26½	26½-27½	30½	31-32	41-42	44½	50	26	28½	22 80
July 10	25½-26½	26½-27	29½	29-29½	40-41	42½	50	26	27½	22 20
July 18	24½-25½	26-26½	29	28½-29	39½-41	42½	50	25½	27½	21 70
July 25	24½-25½	25½-26½	29	29-29½	40-41	42	50	25	27½	21 10
July 31	24½-25	25½-26½	29½	29-29½	40-41	42	48	24½	27	20 45
August 2	24½-24½	25½-25½	29½	29-29½	39½-41	42	48	24½	27	19 70
August 7	23-23½	24-24½	27½	28-28½	39-40	41	44-45	24½	27	19 65
August 17	22-22½	23-24	27	26½-27	38-39	40	44-45	24½	27	19 10
August 24	22½-23½	24-24½	27	26-27	36½-37½	39	44	24	26	19 10
August 31	22½-22½	23½-24	27	25-26	36-37	38½	43	24	26	19 05
September 4	22½-22½	23½-24	27	27-27½	35-36	38	43	24	26	19 05
September 10	22½-23½	24-24½	27	27-28	35-36	38	43	24½	26½	18 50
September 17	21-21½	22½-23	25½	26-26½	34-35	36½	43	23	24½	17 90
September 25	21½-22	22½-23	26	25½-26	34½-35½	36½	39	24½	24½	18 90
September 28	22-22½	22½-23½	26½	25-26½	34-35½	36½	39	24½	24½	19 30
October 1	22-22½	22½-23	26½	25-26½	34½-36	37	39	25	25½	19 45
October 8	22½-23	23½-24	27	25½-26½	35-36½	38	40	25	25½	19 45
October 16	22-22½	22½-23	27	26-27	36-36½	38	40	25	25½	19 80
October 23	22½-22½	22½-23½	27½	26½-27½	36½-36½	38	40	25	25½	20 00
October 30	22½-22½	22½-23½	27½	26-27	36-37	38	40	24½	25½	19 55
November 3	22½-22½	22½-23½	27	26-27	36-37	38	40	2½	25½	19 35
November 7	21½-22	22½-22½	26½	25½-27	39½-40	41	40	25	26	19 00
November 14	22-22½	22½-23	27	25½-26½	38-39	40	40	25½	27	19 75
November 20	21½-22	22½-23	27	25½-26½	38-39	40	40	25½	26	20 00
November 28	22½-23	23-23½	27½	26-26½	38½-39½	40½	42	25½	26	20 95
December 3	22½-22½	22½-23½	27½	25-26	37½-38	39	42	26	26½	20 40
December 8	22½-22½	23-23½	27½	25-26	36½-37½	38½	42	25	26½	20 00
December 14	22½-23½	23½-23½	27½	26-27	37½-38½	39	43	25	26	20 50
December 18	22½-23½	23-23½	27½	25½-27	37-38	39	43	25	26½	20 55
December 26	22½-23	23-23½	28½	26-27	37-38	39	43	25	26½	20 55

¹ New Bedford basis.

² New England basis.

³ New York basis.

Premiums on Staple Cotton in the New Orleans and Memphis Markets

(United States Department of Agriculture)

SEASON AND MONTH	NEW ORLEANS				MEMPHIS				Average Spot Price (Cents)
	PREMIUMS SHOWN IN HUNDREDTHS OF CENT				PREMIUMS SHOWN IN HUNDREDTHS OF CENT				
	Staple 1 $\frac{1}{16}$ Inches	Staple 1 $\frac{1}{8}$ Inches	Staple 1 $\frac{3}{16}$ Inches	Staple 1 $\frac{1}{2}$ Inches	Staple 1 $\frac{1}{16}$ Inches	Staple 1 $\frac{1}{8}$ Inches	Staple 1 $\frac{3}{16}$ Inches	Staple 1 $\frac{1}{2}$ Inches	
1920-1921									
August . . .	433	2,150	—	—	300	2,383	—	—	36.23
September . .	400	2,000	—	—	233	1,966	—	—	30.07
October . . .	340	869	1,200	—	118	829	1,520	1,567	22.68
November . . .	275	744	762	—	208	425	787	1,000	18.81
December . . .	160	500	850	—	100	275	475	650	15.68
January . . .	125	400	612	800	94	375	675	925	16.63
February . . .	100	300	600	800	50	325	613	900	13.44
March . . .	100	300	600	800	50	250	500	775	11.74
April . . .	100	275	512	—	81	305	565	—	12.14
May . . .	72	287	537	800	44	406	631	912	12.84
June . . .	69	312	650	—	50	315	619	881	12.00
July . . .	75	330	575	1,000	95	625	865	1,095	12.41
Average . . .	187	706	690	840	119	707	725	967	17.89
1921-1922									
August . . .	75	433	733	1,033	67	550	933	1,400	13.79
September . .	133	550	883	1,250	183	550	1,183	1,517	19.95
October . . .	185	720	1,080	1,480	190	680	1,160	1,640	19.63
November . . .	225	600	1,000	1,400	175	600	1,000	1,225	18.01
December . . .	225	600	1,000	1,400	225	585	925	1,145	18.30
January . . .	225	600	1,000	1,400	225	500	975	1,244	17.94
February . . .	212	525	825	1,200	200	525	850	1,125	17.90
March . . .	187	431	625	950	144	444	744	1,069	18.31
April . . .	150	375	550	800	175	415	660	900	18.06
May . . .	150	375	550	800	181	469	731	981	20.75
June . . .	150	375	550	800	125	425	837	1,137	22.10
July . . .	150	375	550	800	95	410	710	1,010	22.27
Average . . .	172	497	779	1,109	165	513	892	1,199	18.92

Premiums on Staple Cotton in the New Orleans and Memphis Markets — (Continued)

(United States Department of Agriculture)

SEASON AND MONTH	NEW ORLEANS				MEMPHIS				Average Spot Price (Cents)
	PREMIUMS SHOWN IN HUNDREDTHS OF CENT				PREMIUMS SHOWN IN HUNDREDTHS OF CENT				
	Staple 1 ¹ / ₈ Inches	Staple 1 ¹ / ₂ Inches	Staple 1 ³ / ₈ Inches	Staple 1 ¹ / ₄ Inches	Staple 1 ¹ / ₈ Inches	Staple 1 ¹ / ₂ Inches	Staple 1 ³ / ₈ Inches	Staple 1 ¹ / ₄ Inches	
1922-1923									
August .	150	375	550	800	125	338	Nom	Nom	21.86
September	150	375	550	800	175	315	795	994	21.35
October	150	375	550	800	175	400	675	850	22.73
November	150	375	550	800	125	275	488	738	25.64
December	140	350	520	730	75	195	335	495	25.65
January	100	250	400	450	94	175	288	463	27.55
February	100	250	400	450	66	153	266	403	28.63
March .	65	130	195	270	40	105	165	315	30.55
April	50	100	150	225	6	106	275	450	28.88
May	50	100	150	225	—	100	194	281	27.98
June	50	100	150	225	—	30	65	160	28.52
July	50	100	150	225	12	31	181	331	26.22
Average	104	240	360	500	74	185	339	498	26.30
1923-1924									
August .	50	100	150	225	70	210	400	630	25.20
September	50	100	150	225	81	237	350	475	29.06
October	100	175	275	500	75	200	325	450	30.06
November	100	175	275	420	75	130	240	320	34.73
December	100	175	275	400	94	181	344	456	35.95
January	100	205	325	420	65	135	300	440	34.18
February	100	175	275	400	50	75	200	350	31.88
March .	100	175	275	400	50	69	112	212	28.39
April	100	175	275	400	50	81	125	225	30.30
May	100	175	275	400	50	70	105	185	31.54
June	100	175	275	400	69	119	200	262	29.96
July	100	175	275	400	83	125	200	300	32.07
Average	92	163	258	380	68	136	242	359	31.11

Premiums on Staple Cotton in the New Orleans and Memphis Markets — (Continued)

(United States Department of Agriculture)

SEASON AND MONTH	NEW ORLEANS				MEMPHIS				Average Spot Price (Cents)
	PREMIUMS SHOWN IN HUNDREDTHS OF CENT				PREMIUMS SHOWN IN HUNDREDTHS OF CENT				
	Staple 1½ Inches	Staple 1¼ Inches	Staple 1⅜ Inches	Staple 1¼ Inches	Staple 1½ Inches	Staple 1¼ Inches	Staple 1⅜ Inches	Staple 1¼ Inches	
1924-1925									
August . . .	100	175	275	400	75	300	500	600	29.01
September . .	106	175	281	412	67	167	317	517	24.24
October . . .	125	175	300	450	96	206	326	861	24.47
November . . .	125	225	375	525	94	250	425	656	24.22
December . . .	125	250	400	550	125	362	525	750	23.85
January . . .	160	360	530	820	230	555	795	965	23.98
February . . .	175	400	650	1,000	200	487	762	1,037	24.70
March . . .	175	400	650	1,000	287	587	937	1,350	25.64
April . . .	250	550	800	1,150	287	675	1,062	1,487	24.54
May . . .	250	530	800	1,150	245	675	1,041	1,415	23.41
June . . .	250	550	800	1,150	194	456	869	1,219	24.13
July . . .	250	550	800	1,150	220	445	690	930	24.68
Average . . .	174	362	555	813	177	430	687	982	24.74
1925-1926									
August . . .	250	550	800	1,150	150	345	570	820	23.72
September . .	194	287	625	887	144	325	537	800	23.79
October . . .	175	300	575	800	150	410	620	890	21.77
November . . .	231	375	537	850	219	456	825	1,087	20.94
December . . .	250	400	600	900	206	594	894	1,119	20.06
January . . .	250	400	600	900	265	525	825	1,105	20.84
February . . .	250	400	600	900	187	394	644	894	20.60
March . . .	200	350	550	900	206	462	787	1,062	19.35
April . . .	200	350	550	900	181	519	744	1,081	19.13
May . . .	200	350	550	900	145	405	610	1,065	18.92
June . . .	200	350	550	900	206	369	569	919	18.51
July . . .	200	350	550	900	185	235	515	715	18.71
Average . . .	217	372	591	907	187	419	678	963	20.53

Premiums on Staple Cotton in the New Orleans and Memphis Markets — (Concluded)

(United States Department of Agriculture)

SEASON AND MONTH	NEW ORLEANS				MEMPHIS				Average Spot Price (Cents)
	PREMIUMS SHOWN IN HUNDREDTHS OF CENT				PREMIUMS SHOWN IN HUNDREDTHS OF CENT				
	Staple 1 $\frac{1}{8}$ Inches	Staple 1 $\frac{3}{8}$ Inches	Staple 1 $\frac{1}{2}$ Inches	Staple 1 $\frac{3}{4}$ Inches	Staple 1 $\frac{1}{8}$ Inches	Staple 1 $\frac{3}{8}$ Inches	Staple 1 $\frac{1}{2}$ Inches	Staple 1 $\frac{3}{4}$ Inches	
1926-1927									
August	200	350	550	900	144	275	550	825	18.57
September	200	350	550	900	156	331	531	800	17.01
October	105	235	410	670	110	440	440	820	13.14
November	138	238	450	800	131	406	406	820	12.86
December	150	250	450	840	120	400	400	900	12.68
January	150	250	450	875	119	450	450	800	13.42
February	150	250	450	900	100	225	375	700	14.11
March	150	250	450	900	163	213	400	700	14.33
April	150	250	450	900	150	200	400	950	14.77
May	200	300	500	900	200	325	550	950	16.04
June	200	300	513	900	200	325	600	1,000	16.85
July	200	300	590	900	200	350	600	1,000	17.99
Average	166	277	484	730	149	328	475	772	15.15
1927-1928									
August	163	244	525	788	175	325	575	950	20.04
September	169	263	513	788	150	363	588	975	21.93
October	250	350	550	850	160	330	490	620	20.96
November	238	338	513	800	150	350	438	600	20.22
December	200	300	400	650	150	300	400	513	19.58
January	200	300	400	650	165	285	410	590	19.12
February	200	300	400	650	150	250	350	600	18.33
March	200	300	400	650	110	240	340	570	19.37
April	175	250	350	550	106	200	300	450	20.62
May	175	250	350	550	125	200	288	438	21.58
June	170	245	340	535	125	200	300	450	21.54
July	150	225	300	475	125	200	300	450	21.71
Average	191	280	420	661	141	270	398	601	20.42

Average Monthly Price of Cotton

Source: New York Cotton Exchange

SEASON	Aug.	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	Av.
1895-96	7.55	8.42	9.05	8.68	8.37	8.28	8.05	7.80	7.92	8.21	7.62	7.27	8.10
1896-97	8.03	8.56	8.94	7.89	5.87	7.38	7.19	7.29	7.40	7.71	7.75	7.94	7.71
1897-98	8.00	7.25	6.31	5.86	5.37	5.94	6.18	6.16	6.20	6.41	6.49	6.18	6.41
1898-99	5.93	5.68	5.41	5.40	5.79	6.10	6.49	6.42	6.22	6.21	6.25	6.14	6.00
1899-1900	6.27	6.45	7.27	7.39	7.66	7.74	8.60	9.70	9.77	9.73	9.18	10.06	8.33
1900-01	9.87	10.29	10.19	9.82	10.16	10.04	9.89	8.68	8.33	8.17	8.42	8.53	9.36
1901-02	8.15	8.39	7.95	7.95	8.38	8.28	8.53	8.99	9.28	9.56	9.34	9.33	8.71
1902-03	8.96	8.97	8.80	8.49	8.02	8.94	9.42	10.09	10.36	11.36	12.36	12.60	9.91
1903-04	12.80	12.00	10.25	10.90	12.74	14.27	14.85	15.61	14.49	13.47	11.80	10.84	12.83
1904-05	10.75	11.07	10.36	10.04	7.92	7.18	7.76	8.00	7.94	8.21	8.83	10.77	9.06
1905-06	10.85	10.88	10.31	11.39	12.06	11.90	11.30	11.75	11.75	11.89	11.11	11.01	11.31
1906-07	10.41	9.78	11.00	10.63	10.77	10.83	11.01	11.16	11.11	11.95	12.97	13.13	11.22
1907-08	13.31	12.61	11.56	11.02	11.88	11.75	11.56	11.01	10.18	13.58	11.64	11.12	11.76
1908-09	10.34	9.38	9.25	9.41	9.25	9.59	9.80	9.76	10.35	11.23	11.46	12.45	10.18
1909-10	12.73	12.97	13.81	14.80	15.13	15.15	14.76	15.02	15.12	15.46	15.06	15.63	14.63
1910-11	16.06	14.60	14.39	14.76	15.08	14.88	14.31	14.51	14.82	15.77	15.63	14.17	14.91
1911-12	11.35	9.67	9.44	9.37	9.55	10.38	10.60	10.25	10.25	10.33	11.62	12.58	10.61
1912-13	12.07	11.75	11.05	12.27	13.02	13.08	12.88	12.62	12.33	11.94	12.23	12.28	12.29
1913-14	12.14	13.41	13.75	13.04	13.04	12.71	12.86	13.25	13.26	13.39	13.45	13.25	13.21
1914-15	11.77	11.00	11.00	9.31	7.51	8.21	8.53	8.98	10.03	9.89	9.66	9.31	9.60
1915-16	9.40	10.53	12.29	11.87	12.33	12.34	11.75	11.80	12.07	12.96	12.97	13.04	11.94
1916-17	14.45	15.82	17.99	19.66	18.47	17.61	16.04	18.42	20.41	20.65	25.00	26.56	19.25
1917-18	25.76	23.17	28.12	29.46	30.72	32.25	31.63	33.56	32.09	27.10	30.37	31.65	29.65
1918-19	33.92	34.97	32.65	29.61	30.30	29.88	26.29	27.51	28.81	30.65	32.76	35.32	31.05
1919-20	32.48	30.30	31.26	30.20	30.18	30.88	28.61	41.15	42.46	41.14	39.46	49.92	38.20
1920-21	36.50	31.18	23.04	17.81	15.83	16.17	13.61	11.55	12.13	12.83	22.17	22.33	17.92
1921-22	33.45	19.15	22.90	18.11	18.32	18.07	17.32	18.38	18.03	20.70	22.08	22.29	18.86
1922-23	21.78	21.44	22.92	25.61	25.74	27.34	28.38	30.35	28.78	27.16	28.58	26.49	26.23
1923-24	24.88	28.43	29.84	34.12	36.25	34.36	32.61	28.57	30.50	31.47	29.90	31.95	31.07
1924-25	29.04	23.55	24.53	24.12	23.81	24.08	24.75	25.72	24.60	23.53	24.10	24.53	24.69
1925-26	24.00	23.71	21.83	19.93	19.93	20.82	20.56	19.30	19.22	18.92	18.49	18.67	20.54
1926-27	18.47	17.53	13.34	12.85	12.70	13.35	14.13	14.29	14.67	16.06	16.87	17.85	15.09
1927-28	19.76	22.02	21.25	20.34	19.51	18.27	18.27	19.33	20.59	21.60	21.61	21.76	20.43

Monthly figure obtained by averaging Wednesday and Saturday prices.

Comparative Prices of Foreign Cotton

[January 1 quotations at Liverpool]

Pence per pound

	1925	1926	1927	1928	1929
American, middling . . .	13.57	9.81	6.89	11.08	10.59
Egyptian:					
FGF Sak	30.15	17.00	13.95	17.90	19.35
FGF Upper	19.80	14.30	9.90	14.50	12.29
FGF Pilon	22.10	15.40	10.40	14.75	12.83
Indian:					
Fine Broach	12.45	8.85	6.30	9.90	9.10
Fine Oomra, No. 1 . . .	12.40	8.35	6.25	9.15	8.35
Fine Bengal	11.90	7.75	5.50	8.40	7.65
Fine Surtee	13.20	9.30	6.80	10.40	10.05
South American:					
Fair Peruvian	14.82	14.00	7.00	11.33	11.44
Fair Parahyba	14.82	10.31	7.19	11.33	10.94
Fair Sao Paulo	13.82	9.31	6.19	10.58	10.34

Relative Wholesale Prices of Cotton Yarn and Cotton Fabrics in Comparison with Other Groups of Commodities, from 1919 to 1929 by Quarters

[Prices of 1913, represented by 100, taken as basis]

Source: United States Bureau of Labor Statistics

	Cotton Yarn 10-1 Carded	Pepperell Brown Sheeting 4-4	Lonsdale Bleached Muslin 4-4	Farm Prod- ucts	Foods	Fuel and Light- ing	Metals and Metal Prod- ucts	Build- ing Ma- terials	Chem- icals and Drugs	House Fur- nish- ing Goods	All Com- modi- ties
Average of 1913	100	100	100	100	100	100	100	100	100	100	100
January, 1919 .	201.3	260.6	258.5	224	203	178	175	176	181	167	199
April, 1919 .	188.5	204.6	218.1	230	205	177	153	169	160	167	199
July, 1919 .	267.1	299.0	338.5	241	210	181	160	209	167	183	212
October, 1919 .	276.1	313.0	363.9	227	205	189	162	229	173	194	211
January, 1920 .	328.6	389.1	399.9	247	231	194	175	274	189	239	233
April, 1920 .	351.7	- ¹	412.4	243	238	231	203	300	210	242	245
July, 1920 .	316.7	- ¹	412.4	233	238	259	202	269	212	275	241
October, 1920 .	196.3	274.2	296.2	187	201	280	191	240	198	271	211
January, 1921 .	130.1	165.6	190.8	143	162	247	153	192	153	217	170
April, 1921 .	107.9	136.4	188.0	117	144	205	138	167	135	216	148
July, 1921 .	108.9	136.4	169.8	119	141	186	124	160	129	180	141
October, 1921 .	173.2	184.2	200.1	124	140	189	116	159	131	180	142
January, 1922 .	147.3	160.3	181.9	122	131	195	112	157	124	178	138
April, 1922 .	141.7	153.5	169.8	129	137	194	113	156	124	175	143
July, 1922 .	170.7	174.8	182.3	135	142	254	121	170	121	173	155
October, 1922 .	176.5	183.9	194.1	138	140	226	135	183	124	176	154
January, 1923 .	196.7	199.3	202.7	143	141	218	133	188	131	184	156
April, 1923 .	202.4	211.5	212.2	141	144	200	154	204	136	187	159
July, 1923 .	182.5	197.8	194.1	135	141	183	145	190	128	187	151
October, 1923 .	208.1	204.6	200.1	144	148	172	142	182	129	183	153
January, 1924 .	233.4	225.1	218.3	144	143	169	142	181	132	176	151
April, 1924 .	202.3	211.5	206.2	139	137	179	139	182	128	175	148
July, 1924 .	197.8	211.5	201.7	134	136	175	132	173	127	172	147
October, 1924 .	187.7	204.6	206.2	143	148	168	128	171	131	171	152
January, 1925 .	183.6	201.2	206.2	163	160	168	136	179	135	173	160
April, 1925 .	173.3	201.2	209.3	153	154	169	129	174	134	171	156
July, 1925 .	174.3	177.4	180.3	162	157	172	126	170	133	169	160
October, 1925 .	179.4	180.8	200.1	155	158	172	128	174	135	165	158
January, 1926 .	164.0	180.8	194.1	152	156	177	129	178	133	165	156
April, 1926 .	153.2	180.8	194.1	145	153	174	127	173	130	163	151
July, 1926 .	142.2	163.7	183.3	141	154	177	126	172	131	161	151
October, 1926 .	133.9	158.3	185.0	139	152	184	127	172	129	160	150
Average of 1926 ²	100	100	100	100	100	100	100	100	100	100	100
January, 1927 .	80.7	87.7	91.0	97	97	98	99	98	98	98	97
April, 1927 .	83.2	87.7	91.0	94	95	85	98	95	98	98	94
July, 1927 .	94.2	96.9	91.0	98	94	84	98	94	95	98	94
October, 1927 .	109.0	114.2	97.5	105	100	84	97	92	97	99	97
January, 1928 .	98.6	107.7	92.6	106	99	81	98	91	96	99	96
April, 1928 .	97.9	79.9	92.6	108	100	81	98	93	96	98	97
July, 1928 .	105.2	102.0	92.6	107	102	83	99	94	95	97	98
October, 1928 .	101.3	96.6	92.6	104	102	85	101	95	96	97	98

¹ No quotations.

² Beginning with January, 1927, prices of 1926 represented by 100 taken as basis.

Actual Prices of Cotton in Comparison with Other Basic Raw Materials, from 1919 to 1929 by Quarters

Source: United States Bureau of Labor Statistics

	Cotton Middling Upland (per Pound)	Wool 1-4 Grades (Grease) (per Pound)	Wheat No. 1 Northern (per Bushel)	Corn Contract Grade (per Bushel)	Cattle Good to Choice Steers (per 100 Pounds)	Copper Electro- lytic (per Pound)	Iron Bessemer, Pig (per 2,240 Pounds)	Coal, Bitu- minous (per 2,000 Pounds)
Average of 1913	\$0.128	\$0.471	\$0.874	\$0.625	\$8.507	\$0.157	\$17.133	\$2.200
January, 1919 .	.296	1.200	2.223	1.401	18.413	.204	33.600	4.100
April, 1919 .	.290	1.091	2.589	1.609	18.325	.153	29.350	4.000
July, 1919 .	.351	1.236	2.680	1.920	16.869	.215	29.350	4.000
October, 1919 .	.355	1.236	2.625	1.400	17.594	.217	29.350	4.500
January, 1920 .	.393	1.236	2.931	1.503	15.938	.193	40.400	4.100
April, 1920 .	.424	1.200	3.006	1.706	13.906	.192	43.650	5.500
July, 1920 .	.410	.909	2.831	1.549	15.381	.190	47.150	6.000
October, 1920 .	.226	.727	2.106	.888	14.688	.168	49.210	7.100
January, 1921 .	.167	.546	1.788	.682	9.840	.129	33.960	5.600
April, 1921 .	.121	.527	1.406	.578	8.719	.125	26.960	4.850
July, 1921 .	.124	.491	1.438	.614	8.406	.125	22.835	4.600
October, 1921 .	.197	.473	1.319	.470	8.875	.127	21.960	4.100
January, 1922 .	.179	.582	1.300	.484	8.150	.136	21.560	3.750
April, 1922 .	.181	.727	1.563	.588	8.406	.126	22.585	3.600
July, 1922 .	.223	.818	1.423	.643	9.700	.137	26.770	5.390
October, 1922 .	.228	.836	1.132	.691	10.245	.137	35.170	6.390
January, 1923 .	.275	.982	1.221	.711	9.780	.146	29.270	5.640
April, 1923 .	.290	1.018	1.279	.793	9.015	.169	32.770	4.890
July, 1923 .	.259	1.000	1.084	.857	10.590	.144	28.464	3.890
October, 1923 .	.301	.946	1.172	1.011	10.450	.126	26.960	3.890
January, 1924 .	.347	.982	1.151	.759	9.469	.126	24.760	3.640
April, 1924 .	.299	.964	1.131	.790	10.775	.133	24.560	3.390
July, 1924 .	.291	.873	1.296	1.055	9.563	.124	21.960	3.390
October, 1924 .	.245	1.055	1.434	1.105	9.500	.130	21.760	3.390
January, 1925 .	.240	.700	1.819	1.271	10.594	.148	24.635	3.390
April, 1925 .	.243	.550	1.549	1.082	9.988	.133	22.885	3.390
July, 1925 .	.243	.520	1.591	1.065	11.563	.140	20.760	3.390
October, 1925 .	.211	.530	1.549	.828	11.903	.143	21.385	3.390
January, 1926 .	.208	.530	1.728	.804	9.875	.138	22.760	3.490
April, 1926 .	.194	.459	1.610	.728	9.125	.137	21.385	3.390
July, 1926 .	.182	.439	1.693	.804	9.419	.139	20.385	3.390
October, 1926 .	.128	.459	1.433	.777	9.888	.139	20.885	4.541
Average of 1926	.175	.456	1.554	.751	9.387	.138	21.324	3.603
January, 1927 .	.134	.440	1.413	.768	10.295	.130	21.260	4.450
April, 1927 .	.146	.430	1.341	.735	12.281	.128	21.260	4.265
July, 1927 .	.180	.440	1.440	1.021	12.300	.125	20.260	4.251
October, 1927 .	.211	.470	1.275	.878	14.325	.130	19.760	4.199
January, 1928 .	.190	.500	1.293	.886	15.800	.139	19.260	4.093
April, 1928 .	.203	.550	1.417	1.033	13.340	.141	19.260	4.016
July, 1928 .	.215	.550	1.300	1.080	14.990	.145	18.760	3.956
October, 1928 .	.196	.550	1.185	.937	14.625	.152	19.310	4.020

Relative Prices of Cotton in Comparison with Other Basic Raw Materials, from 1919 to 1929 by Quarters

[Prices of 1913, represented by 100, taken as basis]

Source: United States Bureau of Labor Statistics

	Cotton Middling (Upland)	Wool 1-3 Grades (Grease)	Wheat No. 1 Northern	Corn Contract Grade	Cattle Good to Choice Steers	Copper Electro- lytic	Iron Bessemer, Pig	Coal, Bitu- minous
Average of 1913	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
January, 1919 .	231.3	254.8	254.3	224.2	216.4	129.9	196.1	186.4
April, 1919 .	226.6	231.6	296.2	257.4	215.4	97.5	171.3	181.8
July, 1919 .	274.2	262.4	306.6	307.2	198.3	136.9	171.3	181.8
October, 1919 .	277.3	262.4	300.3	224.0	206.8	138.2	171.3	204.5
January, 1920 .	307.1	258.4	335.6	240.4	187.3	122.8	235.8	186.4
April, 1920 .	331.4	250.6	344.2	273.0	163.5	122.0	254.8	250.0
July, 1920 .	320.6	189.9	324.1	247.8	180.8	120.8	275.2	272.7
October, 1920 .	176.8	151.9	241.1	142.0	172.7	106.5	287.2	322.7
January, 1921 .	130.6	114.0	204.7	109.1	115.7	81.9	198.2	254.5
April, 1921 .	94.9	110.1	160.9	92.5	102.5	79.3	157.4	220.5
July, 1921 .	96.6	102.6	164.7	98.2	98.8	79.7	133.3	209.1
October, 1921 .	154.0	98.7	151.0	75.1	104.3	80.6	128.2	186.4
January, 1922 .	140.0	121.6	148.8	77.4	95.8	86.1	125.8	170.5
April, 1922 .	141.5	151.9	178.9	94.1	98.8	80.3	131.8	163.6
July, 1922 .	174.6	170.9	162.8	102.8	114.0	87.2	156.3	245.0
October, 1922 .	178.0	174.8	129.6	110.6	120.4	87.0	205.3	290.5
January, 1923 .	214.7	205.2	139.8	113.7	115.0	92.5	170.8	256.4
April, 1923 .	226.3	212.7	146.4	126.8	106.0	107.5	191.3	222.3
July, 1923 .	202.3	208.8	124.1	137.1	124.5	91.7	166.1	176.8
October, 1923 .	234.9	197.6	134.2	161.7	122.8	80.3	157.4	176.8
January, 1924 .	271.4	205.2	131.7	121.3	111.3	80.1	144.5	165.5
April, 1924 .	233.6	201.3	129.5	126.4	126.7	84.2	143.4	154.1
July, 1924 .	229.1	182.3	148.4	168.7	112.4	78.5	128.2	154.1
October, 1924 .	191.6	220.2	164.2	176.8	111.7	82.6	127.0	154.1
January, 1925 .	188.0	266.0	208.3	203.3	109.5	94.0	143.8	154.1
April, 1925 .	191.6	218.2	168.7	173.1	117.4	84.8	133.6	154.1
July, 1925 .	190.9	206.3	181.3	170.3	135.9	88.8	121.2	154.1
October, 1925 .	165.8	210.2	169.2	132.4	140.0	91.2	124.8	154.1
January, 1926 .	158.6	201.4	197.8	128.7	116.1	87.8	132.8	158.6
April, 1926 .	142.4	178.5	184.3	116.4	107.3	87.2	124.8	154.1
July, 1926 .	143.6	170.6	193.8	128.6	110.7	88.4	119.0	154.1
October, 1926 .	100.6	178.5	164.0	124.2	116.2	88.3	121.9	- ¹
Average of 1926	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
January, 1927 .	76.5	96.3	91.2	101.1	108.0	94.4	99.7	103.1
April, 1927 .	83.5	94.2	86.6	96.9	128.9	93.0	99.7	98.9
July, 1927 .	102.6	96.3	93.0	134.6	129.1	90.4	95.0	98.5
October, 1927 .	120.3	102.9	82.4	115.7	150.3	94.1	92.7	97.3
January, 1928 .	108.4	109.5	83.5	116.7	165.8	100.4	90.3	94.9
April, 1928 .	115.7	120.4	91.5	136.1	140.0	102.4	90.3	93.1
July, 1928 .	122.6	120.4	83.9	142.4	157.3	105.1	88.0	91.7
October, 1928 .	111.9	120.4	76.5	123.5	153.5	110.1	90.6	93.2

¹ No quotations.

Prices of Staple Cotton Yarns in the United States on First of Each Quarter during Years 1917 to 1928, inclusive

[Prices are per pound]

Source: Daily News Record and Textile World

DATE	10s Single Southern Carded Frame Cones	20/2 Southern Carded Skeins	60/2 Eastern Combed Peeler Warps
January 1, 1917 . . .	35 to 37	39 to 41	1 10 to 1 15
April 1, 1917 . . .	34 to 36	36½ to 38	93 to 95
July 1, 1917 . . .	44 to 46	43 to 46	1 10 to 1 15
October 1, 1917 . . .	41 to 42	42 to 45	1 10 to 1 15
January 1, 1918 . . .	50 to 52	55 to 58	1 20 to 1 25
April 1, 1918 . . .	60 to 61	67 to 68	1 20 to 1 25
July 1, 1918 . . .	61 to 63	71 to 73	1 20 to 1 25
October 1, 1918 . . .	61 to 63	73 to 75	1 20 to 1 25
January 1, 1919 . . .	50 to 53	62 to 65	1 20 to 1 30
April 1, 1919 . . .	41 to 43	46 to 50	1 05 to 1 10
July 1, 1919 . . .	55 to 57	67 to 69	1 55 to 1 60
October 1, 1919 . . .	60 to 63	70 to 72½	1 90 to 1 95
January 1, 1920 . . .	69 to 73	84 to 85	3 50
April 1, 1920 . . .	74 to 77	90 to 92	3 75
July 1, 1920 . . .	70 to 75	80 to 85	2 50
October 1, 1920 . . .	42 to 45	50 to 55	1 50
January 1, 1921 . . .	28 to 29	31 to 32	85
April 1, 1921 . . .	21 to 22	23 to 24	80
July 1, 1921 . . .	21 to 22	22½ to 23	85 to 95
October 1, 1921 . . .	35 to 37	36½ to 38	1 10
January 1, 1922 . . .	30½ to 31	33½ to 34	1 10
April 1, 1922 . . .	28½	31½	1 05
July 1, 1922 . . .	35	39	1 05
October 1, 1922 . . .	34 to 34½	38 to 38½	1 00
January 1, 1923 . . .	41½ to 42	49 to 49½	1 10 to 1 18
April 1, 1923 . . .	45½	54	1 05 to 1 15
July 1, 1923 . . .	39 to 39½	44½ to 45	95 to 1 05
October 1, 1923 . . .	44	49½ to 50	95 to 1 00
January 1, 1924 . . .	50	55	1 05 to 1 15
April 1, 1924 . . .	40½	44 to 44½	78 to 82
July 1, 1924 . . .	40	43½	74 to 78
October 1, 1924 . . .	40	44 to 44½	74 to 77
January 1, 1925 . . .	39	44½	77 to 80
April 1, 1925 . . .	39	43	76 to 79
July 1, 1925 . . .	36	38 to 38½	70 to 74
January 1, 1926 . . .	33½ to 34	36	88 to 90¹
April 1, 1926 . . .	30	33½	77 to 78
July 1, 1926 . . .	27½	30½	77 to 80
October 1, 1926 . . .	26	29½	67½ to 70
January 1, 1927 . . .	23½	26½ to 27	57 to 60
April 1, 1927 . . .	24½	28½ to 29	62 to 65
July 1, 1927 . . .	27½	30 to 31	67 to 69
October 1, 1927 . . .	34½	39 to 40	80 to 85
January 1, 1928 . . .	32	36½ to 37	68 to 71
April 1, 1928 . . .	31	34½ to 35	63 to 65
July 1, 1928 . . .	32½	36½	65 to 66
October 1, 1928 . . .	30½ to 31	35	59 to 62½
January 1, 1929 . . .	31½ to 32	36½ to 37	62 to 65

¹ Beginning with 1926 figures are for 60, 2 Southern combed, as Eastern combed were not reported.

Prices of Carded Warp Yarns and Spot Cotton in the United States, Week by Week, during the Year 1928

[Prices are per pound]

Compiled by Frederick B. Macy & Co., New Bedford

DATE	CARDED SINGLE WARPS				CARDED TWO-PLY WARPS				Mid-up Spot Cotton, New York (in Cents)	Staple Cotton 1 $\frac{3}{8}$ In- ches (in Cents) ¹
	8s	20s	30s	40s	8s	20s	30s	40s		
January 3 . . .	\$0 32	\$0 39	\$0 42	\$0 53	\$0 34	\$0 43	\$0 45	\$0 55	19.55	26
9 . . .	32	39	42	53	34	43	45	55	19.60	26 $\frac{1}{2}$
14 . . .	32	39	42	53	34	43	45	55	19.35	26
20 . . .	31	38	42	52	33	42	45	54	19.25	26
27 . . .	30	37	41	50	32	42	43	53	18.40	25
February 4 . . .	30	37	41	50	32	42	43	53	17.50	23
11 . . .	30	37	41	50	32	42	43	53	18.50	24
18 . . .	30	37	40	49	31	41	42	52	18.50	24
25 . . .	30	36	40	49	31	41	42	52	19.05	25
March 5 . . .	30	36	40	49	31	40	42	51	18.95	24
12 . . .	30	36	40	48	31	39	41	50	19.00	24 $\frac{1}{2}$
19 . . .	31	36	40	48	31	39	41	50	19.45	25
26 . . .	31	36	40	48	31	38	41	50	20.00	25
31 . . .	31	36	40	48	31	38	41	50	19.70	24 $\frac{1}{2}$
April 2 . . .	31	36	40	48	31	38	41	50	19.95	24 $\frac{1}{2}$
7 . . .	31	36	40	48	31	38	41	50	-	23 $\frac{1}{2}$
14 . . .	31	36	40	48	31	38	41	50	20.50	24 $\frac{3}{4}$
21 . . .	32	36	41	48	33	38	42	50	20.45	24 $\frac{3}{4}$
28 . . .	32	36	41	48	33	38	42	50	21.75	25 $\frac{1}{2}$
May 4 . . .	32	36	41	48	33	38	42	50	21.35	26
11 . . .	32	36	41	48	33	38	42	50	22.05	25 $\frac{3}{4}$
19 . . .	32	35 $\frac{1}{2}$	41	48	33	38	42	50	21.60	25 $\frac{1}{2}$
26 . . .	31 $\frac{1}{2}$	35	41	48	33	37	42	50	21.10	25
June 2 . . .	31 $\frac{1}{2}$	35	41	48	33	37	42	50	21.15	25 $\frac{1}{2}$
9 . . .	31 $\frac{1}{2}$	35	41	48	33	37	42	50	21.10	25 $\frac{1}{2}$
16 . . .	32	36	42	49	33	38	42	51	21.00	25 $\frac{1}{2}$
23 . . .	32	36	42	49	33	38	42	51	22.25	26 $\frac{1}{2}$
30 . . .	33	37	42	50	34	39	43	52	23.10	27 $\frac{1}{2}$
July 2 . . .	33	37	42	50	34	39	43	52	23.10	27 $\frac{1}{2}$
7 . . .	33	37	42	51	34	39	43	53	22.80	27
14 . . .	33	37	42	52	34	39	43	54	22.00	26 $\frac{3}{4}$
21 . . .	34	37	42	52	35	39	43	54	21.10	26
28 . . .	34	37	42	52	35	39	43	54	21.10	25 $\frac{3}{4}$
August 4 . . .	34	37	42	52	35	39	43	54	19.95	24 $\frac{1}{2}$
11 . . .	33	36	41	52	34	38	43	53	18.90	23 $\frac{1}{2}$
18 . . .	33	36	40	51	34	38	42	52	18.85	24 $\frac{1}{2}$
25 . . .	32	35	40	51	33	37	42	52	19.10	23 $\frac{3}{4}$
September 8 . . .	32	35	40	51	33	37	42	52	19.35	24 $\frac{1}{2}$
15 . . .	31	35	39	50	32	37	41	51	17.80	22 $\frac{1}{2}$
22 . . .	31	35	39	50	32	37	40	51	18.45	22 $\frac{1}{2}$
29 . . .	31	35	39	49	32	37	40	50	19.30	23 $\frac{1}{2}$
October 5 . . .	31	35	39	49	32	37	40	50	19.10	23
13 . . .	31	36	39 $\frac{1}{2}$	49	32	37	40	50	19.40	22 $\frac{3}{4}$
20 . . .	32	37	40	50	33	39	42	51	20.05	23
29 . . .	32	37	40	50	33	39	42	51	19.90	22 $\frac{1}{2}$
November 3 . . .	32	37	40	50	33	39	42	51	19.35	22 $\frac{1}{2}$
10 . . .	32	37	41	51	33	39	43	52	19.55	22 $\frac{1}{2}$
17 . . .	32	37	41	51	33	39	43	52	19.70	22 $\frac{1}{2}$
24 . . .	33	38	42	52	34	40	44	53	20.60	23 $\frac{1}{2}$
30 . . .	33	38	42	52	34	40	44	53	20.65	23
December 1 . . .	32	37	40	50	33	39	42	52	20.60	23
8 . . .	32	37	40	50	33	39	42	52	20.00	23
15 . . .	33	38	41	51	34	40	43	53	20.35	23
22 . . .	33	38	41	51	34	40	43	53	20.50	23
31 . . .	33	38	42	51	34	40	44	53	20.55	23 $\frac{1}{2}$

¹ New Bedford basis.

Prices of Combed Warp Yarns and Spot Cotton in the United States, Week by Week, during the Year 1928

[Prices are per pound]

Source: Frederick B. Macy & Co., New Bedford

DATE	COMBED SINGLE WARPS				COMBED TWO-PLY WARPS				Mid-up Spot Cotton, New York (in Cents)	Staple Cotton, 1 ¹ / ₈ In- ches (in Cents) ¹
	30s	40s	50s	60s	30s	40s	50s	60s		
January 3 . . .	\$0 60	\$0 65	\$0 75	\$0 88	\$0 65	\$0 70	\$0 82	\$1 00	19.55	26
9 . . .	60	65	75	88	65	70	82	1 00	19.60	26 ¹ / ₂
14 . . .	60	65	75	88	65	70	82	1 00	19.35	26
20 . . .	58	64	74	87	64	70	82	1 00	19.25	26
27 . . .	57	63	73	85	62	68	80	95	18.40	25
February 4 . . .	57	63	73	85	62	68	80	95	17.50	23
11 . . .	57	63	73	85	62	68	80	95	18.50	24
18 . . .	57	63	73	85	62	68	80	95	18.50	24
25 . . .	57	63	73	85	62	68	80	95	19.05	25
March 5 . . .	57	63	73	85	62	68	80	95	18.95	24
12 . . .	57	63	73	85	62	68	80	95	19.00	24 ¹ / ₂
19 . . .	57	62	72	84	62	67	80	94	19.45	25
26 . . .	57	62	72	84	62	67	80	94	20.00	25
31 . . .	57	62	72	84	62	67	80	94	19.70	24 ¹ / ₂
April 2 . . .	57	62	72	84	62	67	80	94	19.95	24 ¹ / ₂
7 . . .	57	62	72	84	62	67	80	94	-	23 ¹ / ₂
14 . . .	58	62	72	84	62	67	80	94	20.50	24 ¹ / ₂
21 . . .	58	62	72	85	64	67	80	94	20.45	24 ¹ / ₂
28 . . .	58	62	72	85	64	67	80	94	21.75	25 ¹ / ₂
May 4 . . .	58	62	72	85	64	67	80	94	21.35	26
11 . . .	58	62	72	85	64	67	80	94	22.05	25 ¹ / ₂
19 . . .	58	62	72	85	64	67	80	94	21.60	25 ¹ / ₂
26 . . .	58	62	72	85	64	67	80	94	21.10	25
June 2 . . .	58	62	72	85	64	67	80	94	21.15	25 ¹ / ₂
9 . . .	58	62	72	85	64	67	80	94	21.10	25 ¹ / ₂
16 . . .	58	62	70	85	64	66	80	93	21.00	25 ¹ / ₂
23 . . .	58	62	70	85	64	66	80	93	22.25	26 ¹ / ₂
30 . . .	58	62	70	85	64	66	80	93	23.10	27 ¹ / ₂
July 2 . . .	58	62	70	85	64	66	80	93	23.10	27 ¹ / ₂
7 . . .	58	62	70	85	64	66	80	93	22.80	27
14 . . .	58	62	70	85	64	66	80	93	22.00	26 ¹ / ₂
21 . . .	57	61	70	83	62	65	78	92	21.10	26
28 . . .	57	60	70	83	62	65	78	92	21.10	25 ¹ / ₂
August 4 . . .	57	60	70	83	62	65	78	92	19.95	24 ¹ / ₂
11 . . .	57	60	70	83	62	65	78	92	18.90	23 ¹ / ₂
18 . . .	57	60	70	83	62	65	78	92	18.85	24 ¹ / ₂
25 . . .	57	60	70	83	62	65	78	92	19.10	23 ¹ / ₂
September 8 . . .	57	60	70	83	62	65	78	92	19.35	24 ¹ / ₂
15 . . .	57	60	70	83	62	65	78	92	17.80	22 ¹ / ₂
22 . . .	57	60	70	83	62	65	78	92	18.45	22 ¹ / ₂
29 . . .	57	60	70	83	62	65	78	92	19.30	23
October 5 . . .	57	60	70	83	62	65	78	92	19.10	23
13 . . .	57	60	70	83	62	65	78	92	19.40	22 ¹ / ₂
20 . . .	57	60	70	83	62	65	78	92	20.05	23
29 . . .	57	60	70	80	65	62	78	90	19.90	22 ¹ / ₂
November 3 . . .	57	60	70	80	65	68	78	90	19.35	22 ¹ / ₂
10 . . .	57	60	70	80	65	68	78	90	19.55	22 ¹ / ₂
17 . . .	57	60	70	80	65	68	78	90	19.70	22 ¹ / ₂
24 . . .	57	61	71	81	65	68	78	90	20.60	23 ¹ / ₂
30 . . .	57	61	71	81	65	68	78	90	20.65	23
December 1 . . .	57	60	70	80	65	68	78	90	20.60	23
8 . . .	57	60	70	80	65	68	78	90	20.00	23
15 . . .	58	62	72	82	67	68	78	90	20.35	23
22 . . .	58	64	74	84	67	68	80	92	20.50	23
31 . . .	60	65	75	85	67	70	80	92	20.55	23 ¹ / ₂

¹ New Bedford basis.

Prices of Staple Cotton Yarns in the United States during the Year 1928

[Prices are cents per pound]

Source: Daily News Record

DATE		16s Single Southern Carded Frame Warps	16/2 Southern Carded Skeins	40/2 Southern Carded Warps	36s Northern Mule Spun Combed Peeler Cones
January	3 . .	34½	34½	50	60
	16 . .	33½-34	33½-34	48 -48½	60
	31 . .	32½	32 -32½	47½	59
February	6 . .	32½	32 -32½	47½	59
	15 . .	33	32½	49	59
	29 . .	33	32½	47 -48	59
March	2 . .	33	32½	47 -48	59
	19 . .	33½	33 -33½	48 -49	59
	31 . .	33½	33 -33½	48 -49	59
April	11 . .	33½	33	48	55
	24 . .	33½	33	48	55
	30 . .	34½	34	49	57
May	10 . .	35	34½	49½	57
	23 . .	34½	34	49	57
	31 . .	34½	34	49	57
June	11 . .	34½	34	49	57
	20 . .	34	33½	48	57
	28 . .	35½	35	50	57
July	10 . .	36	35½	50	57
	20 . .	35½	35	49	57
	31 . .	34½	34	47½	57
August	3 . .	33½	33	46½	56
	17 . .	33	32½	46	56
	30 . .	32½	32	45	56
September	5 . .	32½	32	45	56
	17 . .	32½	33	45	56
	27 . .	33½	34	46	56
October	3 . .	33½	34	46	56
	16 . .	34½	34½	46½	56
	27 . .	35	35	47	56
November	10 . .	35	35	47	56
	20 . .	35	34	47	56
	28 . .	35½	35½-36	47½-48	56-58
December	10 . .	36	36	48 -49	56-58
	21 . .	36	35½-36	48 -49	56-58
	31 . .	36	35½-36	48 -49	56-58

Cotton Gray Goods Prices, December 31, 1926, 1927 and 1928

[Inventory Basis]

Source: Daily News Record

	Con- struction	Width	Yards per Pound	CENTS PER YARD		
				1926	1927	1928
Print cloth	64 x 60	27-inch	7.60	45 $\frac{5}{8}$	53 $\frac{1}{4}$	53 $\frac{3}{4}$
Print cloth	56 x 44	25-inch	10.55	31 $\frac{1}{2}$	41 $\frac{1}{2}$	41 $\frac{1}{4}$
Print cloth	64 x 60	38 $\frac{1}{2}$ -inch	5.35	63 $\frac{1}{4}$	81 $\frac{1}{4}$	75 $\frac{5}{8}$
Print cloth	80 x 80	39-inch	4.00	91 $\frac{1}{2}$	11	103 $\frac{3}{4}$
Tobacco cloth	48 x 44	36-inch	7.75	15 $\frac{5}{8}$	61 $\frac{1}{4}$	—
Tobacco cloth	44 x 36	36-inch	9.20	45 $\frac{5}{8}$	51 $\frac{1}{4}$	—
Sheeting	56 x 60	36-inch	4.00	73 $\frac{1}{4}$	95 $\frac{5}{8}$	87 $\frac{5}{8}$
Sheeting	48 x 40	36-inch	5.50	51 $\frac{1}{4}$	63 $\frac{1}{4}$	61 $\frac{5}{8}$
Sheeting	48 x 48	37-inch	4.00	65 $\frac{5}{8}$	83 $\frac{1}{4}$	83 $\frac{3}{8}$
Sheeting	48 x 48	40-inch	2.50	101 $\frac{1}{2}$	131 $\frac{1}{4}$	123 $\frac{3}{4}$
Sheeting	48 x 48	40-inch	2.85	91 $\frac{1}{4}$	115 $\frac{5}{8}$	113 $\frac{3}{4}$
Drill	—	30-inch	2.50	111 $\frac{1}{4}$	14	131 $\frac{1}{4}$
Drill	—	37-inch	3.95	71 $\frac{1}{2}$	81 $\frac{1}{2}$	81 $\frac{1}{2}$
Jean	84 x 56	30-inch	4.00	81 $\frac{5}{8}$	10	—
Three-leaf twill	64 x 64	39-inch	5.10	61 $\frac{5}{8}$	81 $\frac{1}{2}$	81 $\frac{5}{8}$
Three-leaf twill	68 x 76	39-inch	4.50	8	95 $\frac{5}{8}$	93 $\frac{5}{8}$
Albert (carded)	64 x 80	35-inch	5.10	10	103 $\frac{1}{4}$	101 $\frac{1}{2}$
Filling sateen	64 x 112	39-inch	4.00	12	123 $\frac{3}{4}$	121 $\frac{1}{2}$
Domestic broadcloth	144 x 76	37-inch	4.40	—	381 $\frac{1}{2}$	35
Domestic broadcloth (carded)	112 x 60	37 $\frac{1}{2}$ -inch	4.40	131 $\frac{1}{2}$	121 $\frac{1}{2}$	123 $\frac{1}{4}$
Lawn (carded)	72 x 60	36-inch	10.00	—	81 $\frac{1}{4}$	81 $\frac{1}{2}$
Lawn (carded)	88 x 80	40-inch	6.00	131 $\frac{1}{4}$	131 $\frac{1}{2}$	131 $\frac{1}{2}$
Lawn (combed)	80 x 80	40-inch	9.00	111 $\frac{1}{4}$	131 $\frac{1}{4}$	113 $\frac{3}{4}$
Lawn (combed)	84 x 80	40-inch	10.50	141 $\frac{1}{2}$	16	151 $\frac{1}{2}$
Voile (slack twist)	60 x 52	40-inch	—	81 $\frac{1}{2}$	91 $\frac{1}{2}$	83 $\frac{3}{4}$
Voile (super hard twist)	60 x 56	40-inch	—	111 $\frac{1}{2}$	10	111 $\frac{1}{2}$
Poplin (carded)	100 x 44	37 $\frac{1}{2}$ -inch	3.90	101 $\frac{1}{4}$	151 $\frac{1}{2}$	—
Organdy	72 x 64	40-inch	13.00	12	131 $\frac{1}{4}$	13
Pongee	72 x 100	34-inch	7.00	121 $\frac{1}{4}$	12	13
Osnaburg (p. w.)	—	40-inch	7 oz.	83 $\frac{1}{4}$	13	121 $\frac{1}{4}$
17 $\frac{1}{4}$ -ounce square woven tire fabrics:						
Carded Peeler	—	—	—	33 ¹	43 ¹ $\frac{1}{2}$ ¹	49 ¹
Cord tire fabrics:						
Carded Egyptian (uppers)	—	—	—	39 ¹	54 ¹	55 ¹ $\frac{1}{2}$ ¹
Carded Peeler	—	—	—	34 ¹	45 ¹	49 ¹
Print cloth yarn dobby fancies	—	—	—	43 ¹	48 ¹	48 ¹

¹ Cents per pound.

Prices of Gray Cloths and Spot Cotton during 1928

[Prices are cents per yard]

Source: Daily News Record

DATE	SHEETINGS				PRINT CLOTHS		DRILLS		Twill, 3-LEAF	COTTON
	44 x 40 36-Inch 6.15 Yards	48 x 48 37-Inch 4.00 Yards	64 x 64 72-Inch	68 x 72 72-Inch	64 x 60 27-Inch 7.60 Yards	80 x 80 39-Inch 4.00 Yards	68 x 42 39-Inch 2.50 Yards	68 x 40 37-Inch 3.45 Yards		
January 6	6	8 1/4	33	42	5 3/4	10 7/8	14	8 7/8	68 x 76 37-Inch 4.00 Yards	Mid-up Spot, New York
January 28	5 7/8	7 7/8	33	42	5 1/2	10 1/2	13 1/2	8 1/2		19.85
February 2	5 3/4	7 3/4	33	42	5 1/2	10 1/2	13 1/4	8 1/2		17.95
February 25	5 3/4	7 3/4	33	42	5 3/8	10 3/4	13	8 1/4		17.45
March 3	5 3/4	7 5/8	33	42	5 7/16	10 7/8	13	8 1/4		19.05
March 26	5 7/8	7 3/4	33	42	5 1/2	11	13	8 1/4		18.70
April 4	5 3/4	7 3/4	33	42	5 1/2	11	13	8 1/4		20.00
April 30	6	8 1/2	34 1/2	42	5 3/4	11 1/8	13	8 3/8		19.80
May 5	6 1/4	8 3/4	34 1/2	42	5 3/4	11 1/8	13 1/4	8 1/2		22.15
May 24	6 1/8	8 1/2	34 1/2	42	5 5/8	11	13	8 3/8		21.40
June 4	6	8 1/2	34 1/2	42	5 5/8	10 3/4	13	8 1/4		20.95
June 30	6 1/4	8 7/8	34 1/2	42	6	11	13	8 3/4		21.35
July 9	6 1/4	9	34 1/2	42	6	11	13	8 3/4		23.10
July 31	6 1/4	8 3/4	36	43	6 1/8	11	13	8 3/4		21.95
August 13	5 7/8	8 3/8	36	43	5 3/4	10 1/2	12 3/4	8 1/4		20.45
August 28	5 3/4	8 3/8	36	43	5 5/8	10 1/2	12 3/4	8 1/4		18.55
September 15	5 5/8	8 1/8	36	43	5 3/4	10 1/4	12 3/4	8 1/8		19.30
September 27	5 7/8	8 1/4	36	43	6	10 5/8	12 3/4	8 1/4		17.65
October 6	5 7/8	8 3/8	36	43	6 1/8	10 3/4	13	8 1/4		10
October 23	5 7/8	8 1/2	38	45	6 1/4	11	13	8 1/4		10 1/8
November 8	5 3/4	8 3/8	38	45	6	10 7/8	13	8 3/8		10 1/2
November 26	5 7/8	8 3/8	38	45	6	11	13 1/8	8 1/2		10 5/8
December 10	5 3/4	8 3/8	38	45	6	10 3/4	13 1/4	8 1/2		21.00
December 24	5 3/4	8 3/8	38	45	5 3/4	10 3/4	13 3/4	8 1/2		20.00
										20.55

1 Cents per linear yard.

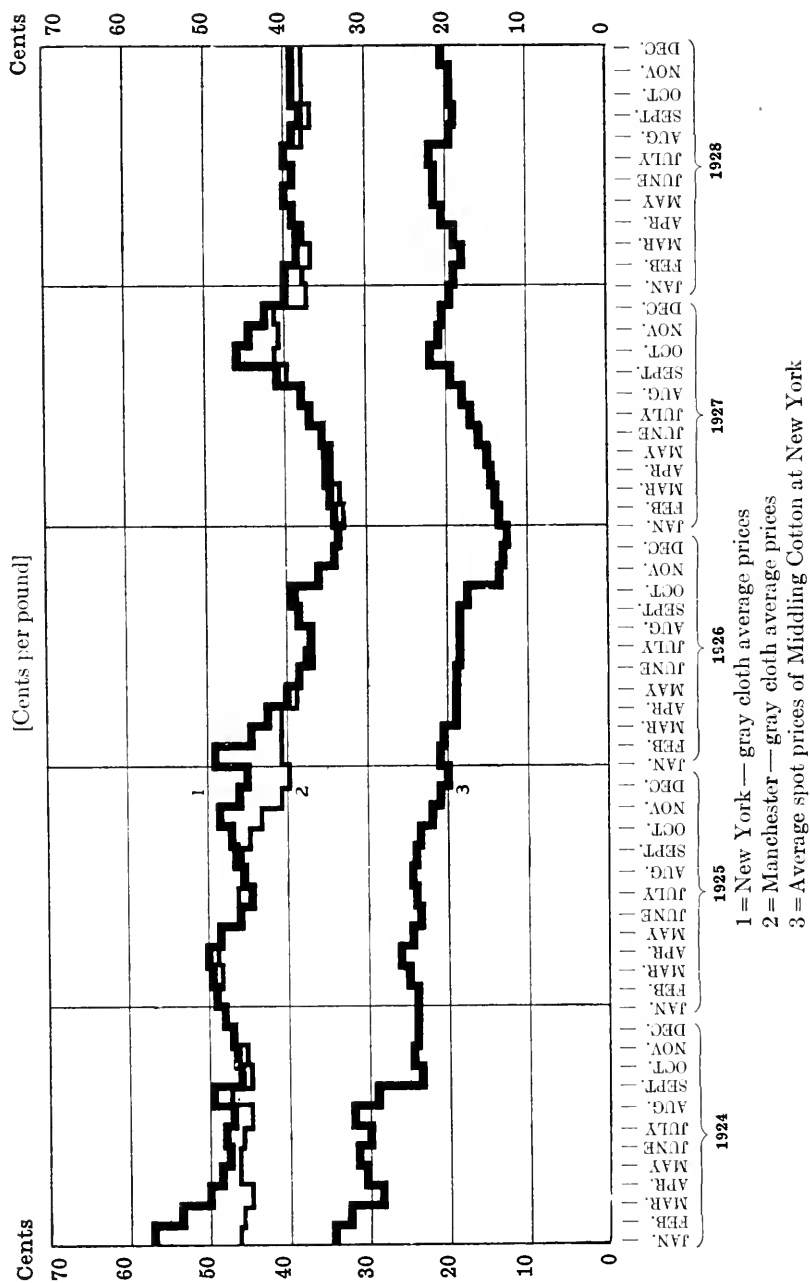
Prices of Gray Cloths and Spot Cotton during 1928 — (Concluded)

[Prices are cents per yard]

Source: Daily News Record

DATE	BROADCLOTHS		SATEENS		VOILE		ORGANDIE	LAWNS		RAYON ALFAVA DOMESTIC	RAYON VOILE	COTTON
	COMBED	CARDED	WARP	FILLING	ORDINARY	LAWNS						
						COMBED		CARDED				
	128 x 68 37.5-Inch 4.40 Yards	80 x 60 37.5-Inch 4.75 Yards	104 x 56 34-Inch 3.00 Yards	64 x 104 37.5-Inch 4.37 Yards	60 x 56 40-Inch	72 x 64 40-Inch 13.00 Yards	88 x 80 40-Inch 8.50 Yards	88 x 80 40-Inch 6.00 Yards	64 x 48 34.5-Inch	75 DENIER	Mid-up Spot, New York	
January 6	16	9 1/2	13 1/4	11	10	13 1/4	12 3/4	13 1/2	15 3/4	39	19.85	
January 28	15 3/4	9 1/4	12 3/4	10 3/4	10	13 1/4	12 3/4	14	16	39	17.95	
February 2	15 1/2	9	12 3/4	10 3/4	10	13 1/4	12 3/4	13 3/4	16	39	17.45	
February 25	15 1/2	9 3/8	12 5/8	10 5/8	9 3/4	13 1/4	12 1/2	14	16	40	19.05	
March 3	15 3/8	9 3/8	12 1/2	10 5/8	9 3/4	13	12 1/2	11	16	40	18.70	
March 26	15 3/8	9 3/8	12 1/2	10 1/2	9 3/4	13	12 1/2	11	15 3/4	41	20.00	
April 4	15 3/8	9 1/4	12 1/2	10 1/2	9 3/4	13	12 3/4	14	15 1/2	41	19.80	
April 30	15 3/4	9 3/8	12 1/2	10 3/4	9 3/4	13	12 3/4	14	15 3/4	42	22.15	
May 5	15 3/4	9 1/2	12 3/4	10 3/4	9 3/4	13	12 3/4	14	16	43	21.40	
May 24	15 3/4	9 1/4	12 1/2	10 3/4	10	13	12 3/4	14	16	43	20.95	
June 4	15 3/4	9	12 1/2	10 3/4	10	13	12 3/4	14	16	42	21.35	
June 30	16	9 1/8	12 1/2	10 3/4	10	13	12 3/4	14	15 3/4	37 1/2	23.10	
July 9	16	9 7/8	12 1/2	10 3/4	10	13	12 3/4	14	15 5/8	37 1/2	21.95	
July 31	15 3/4	9	13	10 3/4	10	13	12 3/4	14	15 5/8	37	20.45	
August 13	15 1/2	8 1/2	12 7/8	10 1/2	9 7/8	13	12 1/2	14	15 1/2	35 1/2	18.55	
August 28	15 1/2	8 5/8	—	10 1/2	9 3/4	13	12 1/2	13 1/2	15 1/2	34	19.30	
September 15	15 1/2	8 1/2	11 3/4	10 3/8	9 3/4	13	12 1/2	13 1/2	15 1/2	33 1/2	17.65	
September 27	16	8 7/8	12	10 5/8	9 3/4	13	12 1/2	13 1/2	15 1/2	34	19.60	
October 6	16	9	12 1/4	10 3/4	9 1/2	13	12 1/2	13 1/2	15 1/2	34	19.05	
October 23	16	9 1/8	12 1/2	10 7/8	9 1/2	13	12 1/2	13 1/2	15 1/2	35	20.00	
November 8	15 3/4	9 1/8	12 1/2	10 7/8	9 1/2	13	12 1/4	13 1/2	15 1/2	35	19.55	
November 26	15 1/2	9 1/4	12 1/2	11	9 3/8	13	12 1/4	13 1/2	15	35	21.00	
December 10	15 3/4	9 3/8	12 1/2	11	9 3/8	12 3/4	12 1/4	13 1/2	14 3/4	35	20.00	
December 24	15 3/4	9	12 1/2	10 7/8	9 3/8	12 1/2	12 1/4	13 1/2	15	35	20.55	

International Cotton Gray Cloth Prices



International Comparative Gray Cloth Prices

[Cents per pound at current exchange]

Source: United States Department of Commerce

WEEK ENDED	NEW YORK				MANCHESTER				OSAKA			
	1925	1926	1927	1928	1925	1926	1927	1928	1925	1926	1927	1928
January 7 . . .	48.92	43.61	33.67	40.46	49.06	41.21	32.74	37.97	46.74	43.56	31.45	- ¹
14 . . .	49.21	43.60	33.45	40.13	49.04	31.26	32.87	38.12	46.64	43.20	31.98	- ¹
21 . . .	49.43	43.82	34.22	39.80	48.98	41.32	33.15	37.70	46.58	42.85	31.93	- ¹
28 . . .	48.98	43.94	34.29	39.28	48.69	41.33	33.04	37.54	44.97	42.68	31.90	- ¹
February 4 . . .	48.98	43.94	34.54	38.86	48.87	41.34	32.94	36.94	44.88	42.38	33.82	31.22
11 . . .	49.52	44.43	34.46	38.47	48.74	41.33	33.16	36.52	45.40	41.83	33.84	32.45
18 . . .	49.59	44.45	34.69	38.70	48.69	40.84	33.54	36.84	44.95	43.17	35.45	32.45
25 . . .	50.06	44.53	34.29	38.49	48.60	40.84	34.18	37.22	45.24	40.82	35.32	32.33
March 3 . . .	50.04	43.78	34.44	38.72	49.07	41.18	34.45	37.71	44.35	39.98	35.96	32.28
10 . . .	50.50	43.23	35.26	38.77	49.26	40.90	34.77	37.71	45.20	39.45	35.55	32.71
17 . . .	50.28	41.33	35.09	38.52	49.21	40.80	34.47	37.70	45.01	39.13	34.87	33.03
24 . . .	49.62	41.80	35.09	38.52	49.63	40.41	34.48	38.14	45.44	39.66	34.89	33.74
31 . . .	48.87	40.49	35.16	38.77	48.83	40.27	34.49	38.54	44.25	40.43	34.41	33.33
April 7 . . .	49.07	40.32	34.94	38.73	48.59	39.08	34.49	38.54	42.30	39.99	33.65	33.87
14 . . .	48.78	39.75	34.85	38.65	48.54	38.82	34.48	38.06	43.56	39.96	32.99	33.73
21 . . .	48.24	39.31	34.85	38.65	48.31	38.83	34.49	38.98	41.98	39.56	32.23	33.24
28 . . .	48.24	40.53	34.95	38.89	47.90	38.59	35.00	38.94	43.00	38.85	33.71	33.60
May 5 . . .	47.26	38.91	35.37	39.99	47.33	- ¹	35.25	40.01	41.38	38.11	35.10	33.04
12 . . .	46.27	38.77	35.62	40.17	46.15	- ¹	35.19	40.02	41.01	38.74	35.15	32.76
19 . . .	45.25	38.69	35.76	39.91	46.46	38.74	36.09	39.45	41.53	37.85	34.33	- ¹
26 . . .	44.93	38.29	35.92	39.59	46.57	38.73	36.74	39.37	41.77	38.38	35.00	32.37
June 2 . . .	44.54	37.62	36.66	39.15	46.76	38.78	37.51	39.38	42.31	38.74	35.19	32.51
9 . . .	44.50	37.65	36.88	38.60	46.39	38.79	37.50	39.36	42.81	38.39	34.93	32.45
16 . . .	44.21	37.16	36.94	38.25	46.63	37.67	37.50	39.16	43.59	38.04	34.32	32.44
23 . . .	44.39	36.23	37.18	38.26	46.37	37.58	37.49	39.20	43.38	38.56	34.03	32.59
30 . . .	44.98	36.21	37.18	39.63	46.38	37.58	37.13	37.93	44.91	39.29	- ¹	34.54
July 7 . . .	44.98	36.15	37.53	40.10	45.75	37.09	37.87	39.98	45.54	39.44	- ¹	34.02
14 . . .	45.35	36.78	37.53	40.00	46.53	37.70	38.60	39.92	44.21	40.32	34.21	34.64
21 . . .	45.42	37.47	38.47	40.07	45.99	37.61	38.83	39.52	44.28	39.93	34.37	33.32
28 . . .	46.85	37.74	39.45	40.00	46.47	38.23	39.36	38.97	44.34	40.27	35.04	32.87
August 4 . . .	46.63	38.31	39.66	40.00	46.19	38.17	39.06	38.88	44.81	40.03	34.76	32.07
11 . . .	46.63	38.32	40.97	39.00	45.91	37.84	40.66	37.94	44.66	39.30	35.16	31.82
18 . . .	47.02	38.15	41.37	38.38	45.83	38.43	40.01	37.28	44.69	38.45	35.84	31.39
25 . . .	46.44	38.56	43.09	38.42	45.52	38.98	40.87	37.18	44.10	38.44	35.46	31.61
September 1 . . .	45.88	39.23	45.49	38.34	44.49	38.94	42.02	37.18	43.77	37.83	36.72	31.86
8 . . .	46.18	39.82	45.76	38.41	44.46	38.96	42.01	37.65	44.29	36.98	37.31	- ¹
15 . . .	47.82	39.43	46.87	37.74	45.54	38.88	41.36	36.50	44.55	36.35	36.90	- ¹
22 . . .	48.79	39.09	46.01	37.42	45.51	38.36	40.65	36.40	43.95	34.95	36.07	- ¹
29 . . .	49.16	37.67	45.09	37.80	44.81	37.66	41.34	37.21	43.97	34.93	36.00	- ¹
October 6 . . .	49.08	37.00	44.97	38.76	44.30	36.63	41.30	37.40	43.56	33.15	36.01	32.53
13 . . .	48.81	35.76	45.05	38.96	42.92	36.12	40.95	37.88	43.19	33.07	36.32	33.61
20 . . .	47.92	35.47	43.94	39.13	42.92	35.62	41.02	37.99	42.72	31.60	35.98	33.81
27 . . .	47.05	34.49	43.16	39.36	41.92	35.00	40.60	38.15	41.78	30.28	35.38	34.41
November 3 . . .	46.05	34.35	43.14	39.21	41.12	35.00	40.55	37.80	42.53	30.32	35.27	34.40
10 . . .	45.71	34.24	42.94	39.24	41.05	35.00	40.47	37.21	42.17	30.05	34.84	34.06
17 . . .	45.76	34.00	42.06	39.21	41.08	35.03	39.40	37.58	42.68	30.62	34.54	34.23
24 . . .	45.74	34.12	41.34	39.00	41.15	34.31	39.15	37.70	42.21	31.24	34.32	- ¹
December 1 . . .	45.87	34.07	40.82	39.30	40.85	34.22	39.17	38.32	41.66	30.29	34.25	33.83
8 . . .	45.36	33.59	40.06	39.40	40.68	33.60	37.98	38.09	40.61	30.38	33.56	33.99
15 . . .	44.82	33.51	39.79	39.03	39.89	33.61	37.48	37.98	39.94	30.45	- ¹	- ¹
22 . . .	43.98	33.44	40.15	38.87	39.89	33.46	37.60	38.12	40.86	30.69	- ¹	33.89
29 . . .	43.98	33.52	40.48	38.77	39.91	32.94	37.60	38.14	- ¹	- ¹	- ¹	33.93
Annual average . . .	47.18	38.59	38.67	39.04	45.83	38.07	37.36	38.18	43.61	37.51	34.69	33.13

¹ Prices not received.

Prices of Staple Cotton Cloths in the United States 1917 to 1928, inclusive

[Prices are per linear yard]

Source: Daily News Record

DATE	Print Cloth 38½", 64 x 60 5.35 Yards per Pound	Brown Sheeting 36", 56 x 60 4 Yards per Pound	Fine Lawn 40", 88 x 80 8.50 Yards per Pound
January 1, 1917	\$0 07 ⁵ / ₈	\$0 09 ³ / ₄	\$0 12
April 1, 1917	08 ¹ / ₄	09 ¹ / ₂ to \$0 09 ³ / ₄	11 ¹ / ₂
July 1, 1917	10 ³ / ₄	13	12 ³ / ₄
October 1, 1917	09 ³ / ₄	12 ¹ / ₂ to 12 ³ / ₄	12
January 1, 1918	12	15 ¹ / ₄	13
April 1, 1918	17 ¹ / ₂	21	19 ¹ / ₂
July 1, 1918	18 ³ / ₄	23	23 ¹ / ₂
October 1, 1918	09 ³ / ₄	17 ¹ / ₂	25 ¹ / ₂
January 1, 1919	12	16	19 ¹ / ₂
April 1, 1919	09 ³ / ₄	12	16
July 1, 1919	17	18 ¹ / ₂	26 ¹ / ₂
October 1, 1919	17	19 ¹ / ₂ to 20	29
January 1, 1920	20 ¹ / ₄	25	40
April 1, 1920	23	26 ¹ / ₂ to 27	40
July 1, 1920	20	22 ¹ / ₂	29
October 1, 1920	12 ¹ / ₂	15 ¹ / ₂	24 ¹ / ₂
January 1, 1921	08	09 ³ / ₄	15 ³ / ₄
April 1, 1921	06 ⁵ / ₈	08	14 ³ / ₄
July 1, 1921	06 ³ / ₈	07 ¹ / ₄	13 ¹ / ₂
October 1, 1921	09 ¹ / ₂	11 ¹ / ₂	16 ¹ / ₂
January 1, 1922	09	09 ³ / ₄	15 ³ / ₄
April 1, 1922	07 ³ / ₈	09	14 ¹ / ₂
July 1, 1922	08 ³ / ₈	10 ¹ / ₄	15 ¹ / ₄
October 1, 1922	09	10 ⁵ / ₈ to 10 ³ / ₄	15
January 1, 1923	10 ³ / ₈	12 to 12 ¹ / ₄	15 ¹ / ₂
April 1, 1923	10 ⁷ / ₈	12 ³ / ₄	16
July 1, 1923	09 ¹ / ₂	11 ¹ / ₄	15 ¹ / ₄
October 1, 1923	09 ³ / ₄	12 ¹ / ₄	15 ³ / ₄
January 1, 1924	11	13 ¹ / ₂	15 ³ / ₄
April 1, 1924	09 ¹ / ₄	11	14 ³ / ₄
July 1, 1924	08 ³ / ₄	10 ³ / ₄	14 ¹ / ₂
October 1, 1924	09	11	14 ¹ / ₂
January 1, 1925	09 ¹ / ₄	10 ⁷ / ₈	14 ¹ / ₄
April 1, 1925	09	10 ³ / ₄	14 ¹ / ₄
July 1, 1925	09 ¹ / ₄	09 ³ / ₄	13 ³ / ₄
October 1, 1925	09 ¹ / ₂	11 ¹ / ₂	14
January 1, 1926	08 ³ / ₄	09 ³ / ₄	13 ³ / ₄
April 1, 1926	07 ³ / ₄	09 ³ / ₈	13 ¹ / ₂
July 1, 1926	07	08 ³ / ₄	13 ¹ / ₄
October 1, 1926	07 ³ / ₈	08 ¹ / ₈	12 ³ / ₄
January 1, 1927	06 ⁵ / ₈	07 ³ / ₄	12 ¹ / ₄
April 1, 1927	06 ³ / ₄	08	12 ¹ / ₄
July 1, 1927	07 ¹ / ₄	08 ¹ / ₂	12
October 1, 1927	08 ³ / ₄	10 ³ / ₄	13
January 1, 1928	08	09 ⁵ / ₈	12 ³ / ₄
April 1, 1928	07 ⁵ / ₈	08 ⁵ / ₈	12 ³ / ₄
July 1, 1928	08	09	12 ³ / ₄
October 1, 1928	07 ⁵ / ₈	08 ⁷ / ₈	12 ¹ / ₂
January 1, 1929	07 ⁵ / ₈	08 ⁷ / ₈	12 ¹ / ₄

Average Yearly Print Cloth Prices

[Figures for Calendar Years]

Source: Daily News Record

Year	25-Inch 36 x 44 10.55 Yard	27-Inch 64 x 60 7.60 Yard	38½-Inch 44 x 60 8.20 Yard	38½-Inch 60 x 48 6.25 Yard	38½-Inch 64 x 60 5.35 Yard	39-Inch 68 x 72 4.75 Yard	39-Inch 72 x 76 4.25 Yard	39-Inch 80 x 80 4.00 Yard	Average Cotton Goods Prices ¹	New York Middling Spot Cotton
Pre-war average (1911-12-13)	2.492	3.308	3.237	4.243	4.852	5.470	6.158	6.942	8.054	12.55
1915	2.152	2.900	2.800	3.544	4.050	4.673	5.359	5.989	7.338	10.08
1916	3.059	4.118	4.178	5.200	6.031	6.781	7.370	8.011	9.860	14.45
1917	5.113	6.656	6.307	8.046	9.399	10.701	11.853	12.795	15.074	23.80
1918 ²	8.232	11.513	10.300	14.029	15.152	18.338	20.332	20.930	23.533	31.59
1919	8.010	9.869	9.300	12.650	13.700	16.695	19.258	21.670	21.912	32.37
1920	9.848	12.336	12.100	15.848	17.280	18.788	21.649	23.915	26.000	33.79
1921	3.953	5.079	4.855	6.565	7.710	8.869	9.635	11.387	13.018	15.05
1922	5.076	6.823	6.276	7.962	8.943	10.008	11.622	12.605	15.090	22.44
1923	5.426	7.461	7.052	8.835	10.198	11.721	12.646	13.608	17.145	29.30
1924	4.887	6.780	6.227	7.875	9.063	10.382	11.837	13.279	16.084	28.75
1925	4.786	6.535	6.183	7.981	9.222	10.541	11.802	12.700	15.097	23.43
1926	3.845	5.196	5.016	6.398	7.491	8.547	9.587	10.593	12.858	17.50
1927	4.115	5.490	5.053	6.533	7.586	8.616	9.692	10.459	12.663	17.55
1928	4.239	5.722	5.114	6.634	7.667	8.763	9.824	10.779	13.141	20.02

¹ This average includes, among others, eight print cloths, five sheetings, four drills, four standard colored goods, four bleached goods and two ducks.

² In June, 1918, the government announced a list of maximum prices on cotton goods. These prices were really in effect till the end of the year. After the armistice in November, however, business almost ceased and there was practically no market. This may explain some figures which would otherwise seem irregular.

Average Yearly Standard Colored Goods and Bleached Goods Prices

[Figures for Calendar Years]

Source: Daily News Record

Colors	Pre-war Average (1911-12-13)	1919	1920	1921	1922	1923	1924	1925	1926	1927	1928
Standard 2.20 denim	11.485	30.062	38.250	15.666	19.486	23.826	21.456	18.912	15.425	16.115	17.947
Standard fine chambray, about 5.00 yard	6.625	20.500	34.620	12.375	14.281	14.230	12.466	12.057	9.925	10.344	10.784
Standard 3.80 work shirt cham- bray	6.916	17.444	25.200	11.156	13.929	15.403	14.014	13.465	11.613	11.426	11.776
27-inch Eastern Standard staple gingham	6.194	18.178	19.305	12.329	13.820	14.395	12.207	11.146	8.937	9.486	10.524
Standard 8-ounce ticking	13.138	33.400	28.030	19.250	23.156	26.740	25.866	23.658	19.236	20.016	21.418
Standard branded bleached mus- lin, Class A	8.432	25.045	33.500	16.684	17.278	18.497	18.337	17.996	16.611	16.123	16.625
Standard branded bleached mus- lin, Class B	7.235	21.300	21.300	13.330	13.812	15.014	14.805	14.206	12.507	11.849	11.869
10/4 bleached wide sheeting, Class A	25.857	67.819	71.042	50.730	52.091	57.484	56.397	52.277	48.335	45.841	47.936
10/4 bleached wide sheeting, Class B	22.308	60.594	64.200	46.215	47.104	51.346	50.295	46.708	41.075	38.979	40.573

Cotton Finishing Industry ¹

Source: National Association of Finishers of Cotton Fabrics

	Billings (Thousands of Yards) ²	Orders, Grey Yardage (Thousands of Yards)	Shipments (Cases)	Stocks (Cases)	Activity (Per Cent of Capacity)
1923 monthly average	95,098	91,504	48,116	46,166	68
1924 monthly average	77,650	76,105	41,863	43,139	58
1925 monthly average	78,756	76,558	43,691	39,640	60
1926 monthly average	81,399	78,676	47,458	39,673	64
1927 monthly average	84,457	81,710	49,398	38,243	70
1928 monthly average	75,099	74,299	46,395	37,829	62
1927					
January	75,510	88,603	48,936	36,581	69
February	83,554	91,402	48,968	34,971	82
March	108,067	102,326	59,519	36,178	82
April	91,675	85,323	51,869	38,275	78
May	85,054	77,170	49,711	37,340	72
June	87,006	77,743	48,133	39,535	66
July	72,334	71,959	43,154	40,390	63
August	84,780	82,407	52,399	37,092	68
September	84,899	87,386	52,316	37,053	72
October	85,490	77,296	50,175	39,094	73
November	77,239	69,072	44,671	41,350	61
December	77,885	69,836	43,287	41,059	59
1928					
January	68,737	75,665	44,673	40,751	62
February	78,786	79,184	49,035	38,698	69
March	89,740	81,328	51,495	39,787	69
April	75,378	68,316	43,378	40,876	64
May	73,539	72,961	47,555	40,449	62
June	70,029	61,347	42,357	38,907	53
July	58,685	62,310	40,500	37,958	51
August	70,748	71,743	46,283	35,819	54
September	69,805	74,483	45,767	33,410	61
October	83,935	87,175	50,984	32,046	66
November	82,700	82,657	49,136	36,566	65
December	79,112	74,417	47,587	38,678	62

¹ Figures cover approximately 70 per cent of white goods, 55 per cent of dyed goods, and 25 per cent of printed goods finished outside of mills.

² Goods are billed as completed, hence billings approximate production.

Activity of the American Cotton Industry

Source: United States Bureau of the Census

	Total Spindle Hours (Millions)	Hours per Spindle in Place	Hours per Spindle in Place relative to 1922	Per Cent of Capacity
1922 monthly average	7,723	209	100	93.7
1925 monthly average	7,877	208	100	92.7
1926 monthly average	8,083	215	103	95.4
1927 monthly average	8,708	236	113	104.9
1928 monthly average	7,729	216	103	95.5
1926				
January	8,359	221	106	98.7
February	8,094	214	103	102.8
March	9,163	242	116	102.1
April	8,348	221	106	98.2
May	7,506	199	95	88.9
June	7,606	202	97	88.4
July	6,770	180	86	78.9
August	7,489	200	96	87.4
September	8,248	220	105	98.5
October	8,370	224	107	98.9
November	8,480	227	109	101.2
December	8,563	229	110	100.3
1927				
January	8,558	229	110	102.3
February	8,266	222	107	106.8
March	9,629	260	125	109.7
April	8,804	238	110	105.8
May	9,002	244	117	109.0
June	9,192	249	120	109.2
July	8,043	219	105	99.1
August	8,973	245	117	103.5
September	8,761	240	115	107.0
October	8,705	238	114	105.3
November	8,680	238	114	107.2
December	7,859	215	103	94.3
1928				
January	8,259	227	109	101.5
February	7,969	220	105	101.2
March	8,312	231	110	96.8
April	7,416	206	99	94.8
May	7,959	222	106	95.0
June	7,248	203	97	88.3
July	6,259	176	84	79.8
August	7,431	209	100	87.7
September	6,961	196	94	90.6
October	8,694	246	118	103.9
November	8,524	241	115	108.1
December	7,711	219	105	99.1

Changes in Cost of Living in the United States, 1917 to 1928

Source: United States Bureau of Labor Statistics

DATE	PER CENT OF INCREASE OVER 1913 IN EXPENDITURE FOR —						
	Food	Clothing	Rent	Fuel and Light	House-furnishing Goods	Miscellaneous	All Items
December, 1914 . . .	5.0	1.0	— ¹	1.0	4.0	3.0	3.0
December, 1915 . . .	5.0	4.7	1.5	1.0	10.6	7.4	5.1
December, 1916 . . .	26.0	20.0	2.3	8.4	27.8	13.3	18.3
December, 1917 . . .	57.0	49.1	.1	24.1	50.6	40.5	42.4
December, 1918 . . .	87.0	105.3	9.2	47.9	113.6	65.8	74.4
June, 1919	84.0	114.5	14.2	45.6	125.1	73.2	77.3
December, 1919 . . .	97.0	168.7	25.3	56.8	163.5	90.2	99.3
June, 1920	119.0	187.5	34.9	71.9	192.7	101.4	116.5
December, 1920 . . .	78.0	158.5	51.1	94.9	185.4	108.2	100.4
May, 1921	44.7	122.6	59.0	81.6	147.7	108.8	80.4
September, 1921 . .	53.1	92.1	60.0	80.9	124.7	107.8	77.3
December, 1921 . . .	49.9	84.4	61.4	81.1	118.0	106.8	74.3
March, 1922	38.7	75.5	60.9	75.8	106.2	103.3	66.9
June, 1922	40.7	72.3	60.9	74.2	102.9	101.5	66.4
September, 1922 . .	39.7	71.3	61.1	83.6	102.9	101.1	66.3
December, 1922 . . .	46.6	71.5	61.9	86.4	108.2	100.5	69.5
March, 1923	41.9	74.4	62.4	86.2	117.6	100.3	68.8
June, 1923	44.3	74.9	63.4	80.6	122.2	100.3	69.7
September, 1923 . .	49.3	76.5	64.4	81.3	122.4	101.1	72.1
December, 1923 . . .	50.3	76.3	66.5	84.0	122.4	101.7	73.2
March, 1924	43.7	75.8	67.0	82.2	121.3	101.1	70.4
June, 1924	42.4	74.2	68.0	77.3	116.0	101.1	69.1
September, 1924 . .	46.8	72.3	68.0	79.1	114.9	101.1	70.6
December, 1924 . . .	51.5	71.3	68.2	80.5	116.0	101.7	72.5
June, 1925	55.0	70.6	67.4	76.5	114.3	102.7	73.5
December, 1925 . . .	65.5	69.4	67.1	86.9	114.3	103.5	77.9
June, 1926	59.7	68.2	65.4	80.7	110.4	103.3	74.8
December, 1926 . . .	61.8	66.7	64.2	88.3	107.7	103.9	75.6
June, 1927	58.5	64.9	62.1	80.8	105.2	104.5	73.4
December, 1927 . . .	55.9	62.9	60.2	83.2	104.6	105.1	72.0
June, 1928	52.6	62.6	57.6	77.2	101.1	105.5	70.0
December, 1928 . . .	55.8	61.9	55.9	81.3	99.7	107.1	71.3

¹ No change.

Wage Rates paid by Cotton Mills of Lancashire, England, since 1853

The table below gives the wage rates paid under the standard lists of Lancashire, in terms of percentage of the basic list prices. Basic list prices are indicated by 100; rates 5 per cent above list are expressed by 105; rates 5 per cent below list are expressed by 95, etc.

END OF YEAR —	COTTON SPINNING		Cotton Weaving Blackburn ¹ and Uniform Lists
	Bolton List	Oldham List	
1853	No list	No list	Blackburn list adopted + 10
1854-57	No list	No list	100
1858	List adopted	No list	100
1859	100	No list	100
1860	105	No list	105
1861-65	100	No list	100
1866	105	No list	100
1867	100	No list	List revised
1868	100	No list	100
1869	95	No list	95
1870	95	No list	100
1871	100	No list	100
1872-73	105	No list	100
1874	100	No list	100
1875	105	No list	100
1876	105	List adopted	100
1877	100	95	100
1878	100	85	90
1879	90	80	85
1880	95	85	85
1881-82	95	90	90
1883	95	90	85
1884	95	90	90
1885-87	90	85	90
1888-89	95	90	90
1890	100	90	90
1891	100	95	90
1892	100	95	Uniform list adopted - 10
1893-98	100	92.09	90
1899	100	95	92.5
1900-04	105	100	92.5
1905	105	100	97.5
1906	105	105	100
1907-08	110	110	100
1909-11	105	105	100
1912-14	105	105	105
1915	110	110	105
1916	115	115	110
1917	140	140	140
1918	215	215	215
1919	245	245	245
1920	315 ²	315 ²	315 ³
1921	245	245	245
1922-28	195	195	195

¹ Blackburn list succeeded by Uniform list in 1892.

² Strippers and grinders, blowing-room operatives, and leading men in cotton rooms received in 1920 an additional 10 per cent on wages realized after the addition of the 70 per cent of the list.

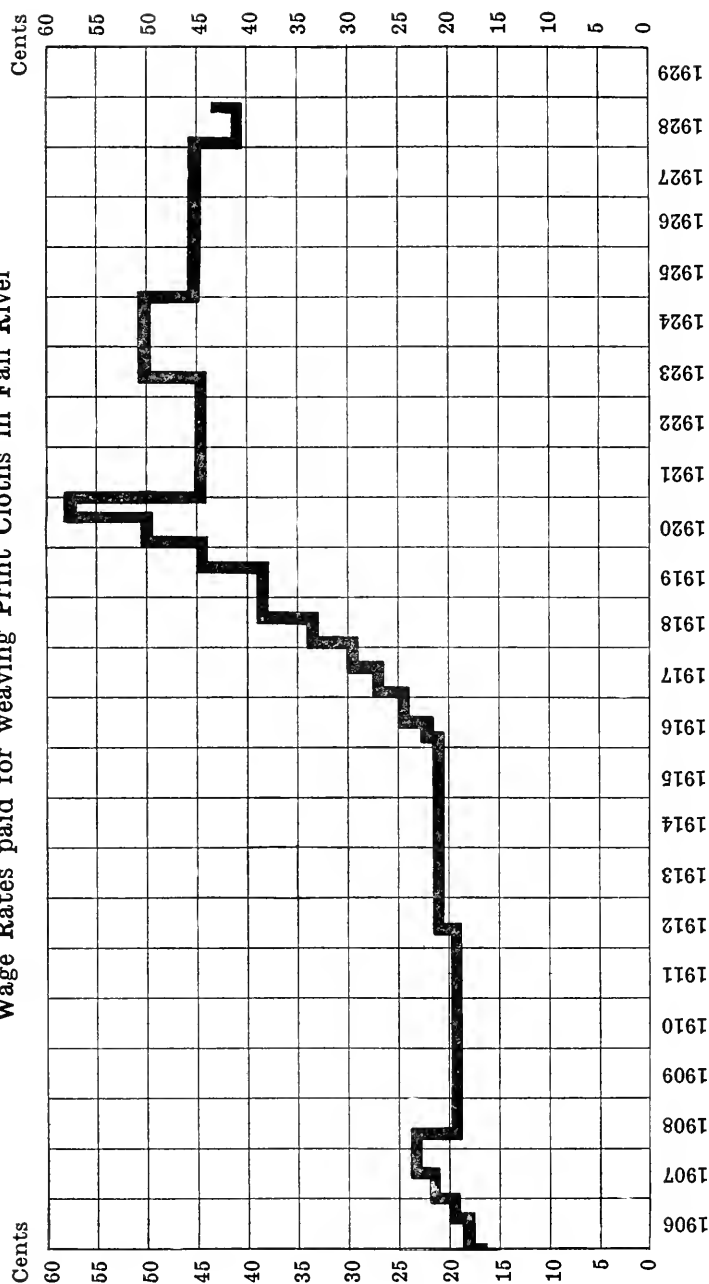
³ Tapers, dry tapers, warp dressers, and loom overlookers received an advance in 1920 of only 55 per cent of list, instead of the 70 per cent which other operatives received. In 1921 these operatives were reduced only 55 per cent instead of the 70 per cent by which other workers were cut down.

General Wage Changes in New Bedford since 1870

PERIOD	Advance or Reduction from Previous Rate (Per Cent)	Percentage of January, 1870, Rate	Percentage of Pre-war Rate
January, 1870, to March, 1870 . . .	-	100.00	-
March, 1870, to December, 1873 . . .	+10	110.00	-
December, 1873, to December, 1875 . . .	-10	99.00	-
December, 1875, to August, 1878 . . .	-10	89.10	-
August, 1878, to January, 1880 . . .	-10	80.19	-
January, 1880, to April, 1880 . . .	+10	88.20	-
April, 1880, to April, 1884 . . .	+10	97.02	-
April, 1884, to April, 1885 . . .	-10	87.31	-
April, 1885, to April, 1886 . . .	-10	78.57	-
April, 1886, to April, 1888 . . .	+10	86.42	-
April, 1888, to August, 1892 . . .	+5	90.74	-
August, 1892, to December, 1892 . . .	+3	93.46	-
December, 1892, to September, 1893 . . .	+7	100.00	-
September, 1893, to August, 1894 . . .	-10@15	87.50	-
August, 1894, to April, 1895 . . .	-5	83.12	-
April, 1895, to January, 1898 . . .	+5	87.27	-
January, 1898, to April, 1899 . . .	-10	78.54	-
April, 1899, to December, 1899 . . .	+10	86.39	-
December, 1899, to April, 1902 . . .	+10	95.02	-
April, 1902, to December, 1903 . . .	+10	104.52	-
December, 1903, to July, 1906 . . .	-10 ¹	95.02	-
July, 1906, to December, 1906 . . .	+5	99.77	-
December, 1906, to May, 1907 . . .	+7½	107.25	-
May, 1907, to April, 1908 . . .	+10	117.97	-
April, 1908, to March, 1912 . . .	-10	106.17	-
March, 1912, to January, 1916 . . .	+10	116.78	100.00
January, 1916, to April, 1916 . . .	+5	122.61	105.00
April, 1916, to November, 1916 . . .	+10	134.87	115.50
November, 1916, to June, 1917 . . .	+10	148.35	127.05
June, 1917, to November, 1917 . . .	+10	163.18	139.76
November, 1917, to June, 1918 . . .	+10	179.49	153.74
June, 1918, to June, 1919 . . .	+17½	210.90	180.64
June, 1919, to December, 1919 . . .	+15	242.53	207.74
December, 1919, to June, 1920 . . .	+12½	272.84	233.71
June, 1920, to January, 1921 . . .	+15	313.76	268.77
January, 1921, to April, 1923 . . .	-22½	243.16	208.30
April, 1923, to January, 1925 . . .	+12½	273.56	234.34
January, 1925, to April, 1928 . . .	-10	246.21	210.91
April, 1928, to October, 1928 . . .	-10	221.59	189.82
October, 1928, to — . . .	+5½	233.77	200.26

¹ Approximate reduction of 10 per cent to scale of December, 1899.

Wage Rates paid for weaving Print Cloths in Fall River



The above chart, based on the table at the top of the following page, shows the fluctuations in the amount paid by Fall River print cloth manufacturers to their weavers for weaving $47\frac{1}{2}$ yards of 28", 64 x 64, 7-yard print cloths. Wage rates of other classes of operatives, per hour or per piece, fluctuated in about the same ratio as those of weavers during the period covered. Accordingly this chart may be taken as indicating the general changes in the hourly or piece wage rates of Fall River mill-workers.

Wage Rates paid for weaving Print Cloths in Fall River

Prices paid for weaving 47½ yards of 28-inch, 64 x 64, 7-yard print cloth

PERIOD	Wage Rate	Advance or Reductions from Previous Rate (Per Cent)	Percentage of 1906 Rate	Percentage of Pre-war Rate
July, 1906, to November, 1906 .	1980	+6½	100	—
November, 1906, to May, 1907 .	2178	+10	110	—
May, 1907, to May, 1908 . .	2396	+10	121	—
May, 1908, to March, 1912 . .	1966	-17½	99	—
March, 1912, to January, 1916 .	2163	+10	109	100.00
January, 1916, to May, 1916 .	2271	+5	115	105.00
May, 1916, to December, 1916 .	2498	+10	126	115.50
December, 1916, to June, 1917 .	2748	+10	139	127.05
June, 1917, to December, 1917 .	3023	+10	154	139.76
December, 1917, to June, 1918 .	3401	+12½	172	157.23
June, 1918, to June, 1919 . .	3911	+15	198	180.81
June, 1919, to December, 1919 .	4498	+15	227	207.93
December, 1919, to June, 1920 .	5060	+12½	256	233.92
June, 1920, to January, 1921 .	5819	+15	293	269.01
January, 1921, to April, 1923 .	4510	-22½	228	208.48
April, 1923, to January, 1925 .	5074	+12½	257	234.54
January, 1925, to January, 1928 .	4567	-10	231	211.09
January, 1928, to October, 1928	4108	-10	208	189.99
October, 1928, to ——— . . .	4334	+5½	219	200.43

Average Cash Dividends of New Bedford and Fall River Mills

Source: Sanford & Kelly of New Bedford and G. M. Haffards & Co. of Fall River

YEAR	New Bedford	Fall River
1913	5.63 per cent on \$38,925,000 capital	6.87 per cent on \$30,179,100 capital
1914	4.76 per cent on \$39,225,000 capital	4.03 per cent on \$30,349,700 capital
1915	7.83 per cent on \$39,725,000 capital	3.77 per cent on \$30,349,700 capital
1916	7.33 per cent on \$40,675,000 capital	8.01 per cent on \$30,486,700 capital
1917	16.47 per cent on \$49,012,300 capital	13.08 per cent on \$33,111,700 capital
1918	12.66 per cent on \$50,656,300 capital	18.02 per cent on \$34,111,700 capital
1919	13.30 per cent on \$50,572,500 capital	14.46 per cent on \$34,111,700 capital
1920	26.17 per cent on \$50,966,500 capital	32.77 per cent on \$33,860,000 capital
1921	9.19 per cent on \$59,374,000 capital	8.01 per cent on \$38,610,000 capital
1922	9.72 per cent on \$61,735,200 capital	9.60 per cent on \$37,210,000 capital
1923	6.96 per cent on \$72,251,900 capital	7.81 per cent on \$44,666,700 capital
1924	5.13 per cent on \$73,251,900 capital	6.45 per cent on \$43,665,000 capital
1925	5.30 per cent on \$74,028,900 capital	5.03 per cent on \$43,585,000 capital
1926	4.00 per cent on \$72,698,700 capital	3.48 per cent on \$43,585,000 capital
1927	3.50 per cent on \$72,461,900 capital	3.51 per cent on \$41,660,000 capital
1928	2.08 per cent on \$73,442,900 capital	2.94 per cent on \$39,844,725 capital

Gross Manufacturing Margins on Staple Yarns and Cloths in the United States

[Cents per pound]

Source: Garside Cotton Service

		Average Margin on Four Yarns	Average Margin on Three Print Cloths	Average Margin on Three Sheetings	Average Margin on Two Ducks and Two Drills
August	1, 1925	6.12	17.04	7.64	11.17
September	5, 1925	8.27	20.60	11.45	13.95
October	3, 1925	10.55	22.20	13.62	13.99
November	7, 1925	10.54	21.69	14.45	15.66
December	4, 1925	10.54	21.48	13.87	14.82
January	1, 1926	9.24	19.67	12.46	14.48
February	5, 1926	9.21	19.84	12.27	13.43
March	5, 1926	9.77	20.70	14.78	14.00
April	2, 1926	8.25	17.23	12.89	13.23
May	7, 1926	7.70	16.42	12.29	12.62
June	4, 1926	6.58	15.19	11.32	11.13
July	2, 1926	5.64	13.26	10.61	10.94
August	6, 1926	7.36	16.72	12.46	11.13
September	3, 1926	8.74	17.60	13.52	11.31
October	1, 1926	11.22	20.08	16.70	15.28
November	5, 1926	10.70	19.37	15.39	15.24
December	3, 1926	10.42	19.55	13.74	14.27
January	7, 1927	8.49	18.88	12.51	13.00
February	4, 1927	8.74	18.74	12.75	12.37
March	4, 1927	7.91	18.13	12.46	11.94
April	1, 1927	8.06	18.19	12.43	12.00
May	6, 1927	6.28	16.97	10.67	10.48
June	3, 1927	6.93	17.21	10.53	10.67
July	1, 1927	7.22	17.96	11.09	10.75
August	5, 1927	8.98	18.68	12.72	10.98
September	2, 1927	7.22	18.23	12.45	10.43
October	7, 1927	8.98	19.10	13.70	12.73
November	4, 1927	8.26	18.35	12.73	11.63
December	2, 1927	8.14	16.91	11.94	11.46
January	6, 1928	8.25	17.93	11.66	10.48
February	3, 1928	8.75	18.48	12.53	11.93
March	2, 1928	7.68	17.22	10.62	10.35
April	6, 1928	6.87	16.32	9.17	9.33
May	4, 1928	5.90	16.14	8.30	8.70
June	1, 1928	6.84	15.54	8.70	9.34
July	6, 1928	5.64	14.94	7.03	7.55
August	3, 1928	7.01	17.11	9.24	9.94
September	7, 1928	7.15	17.23	9.69	11.21
October	5, 1928	8.15	18.59	9.67	10.65
November	2, 1928	9.38	18.97	10.19	11.51
December	7, 1928	9.31	17.89	9.64	11.44
January	4, 1929	8.92	17.26	9.52	11.38

These weekly average margins show the spread between the price of cotton after making an allowance for waste and the price of yarns and cloths.

United States Exports of Cotton Machinery, 1928

[Figures for Calendar Years]

Source: United States Department of Commerce

COUNTRY OF DESTINATION	Looms	Spinning and Twisting Machinery	Knitting Machinery	Other Cotton Machinery
Belgium	\$37,922	—	\$56,524	—
France	1,427	\$6,141	318,476	\$89
Germany	53,645	75,357	69,998	4,371
Italy	141,028	29,668	310,176	20,468
Netherlands	542	37,958	21,833	—
Poland and Danzig	—	28,883	6,245	165
Spain	17,406	—	96,745	2,200
United Kingdom	13,974	11,337	2,239,079	30,774
Canada	256,706	45,079	853,357	295,287
Mexico	6,896	22,291	211,121	98,806
Argentina	88	769	420,138	—
Brazil	—	5,324	251,517	3,937
Chile	692	—	102,980	901
Colombia	5,863	1,140	19,627	23,514
British India	—	2,717	22,389	1,034
China	6,130	47,613	187,038	9,321
Hongkong	—	—	38,820	—
Japan	280	17,027	30,953	8,386
Australia	654	800	250,231	1,050
Total	\$543,253	\$332,104	\$5,507,247	\$500,303

**Calculated Total World's Cotton Spinning Spindles (000's
1928, on Basis of Returns made to**

	COUNTRIES	TOTAL ESTIMATED NUMBER OF SPINNING SPINDLES		MULE SPINDLES	
		HALF-YEAR ENDED		HALF-YEAR ENDED	
		Jan. 31, 1928	July 31, 1928	Jan. 31, 1928	July 31, 1928
	Europe:				
1	Great Britain . . .	57,101	57,136	43,646	44,081
2	Germany	11,020	11,153	4,630	4,630
3	France	9,595	9,770	3,530	3,615
4	Russia	7,166	7,311	2,597	2,597
5	Italy	5,096	5,189	709	689
6	Czechoslovakia . . .	3,632	3,663	1,714	1,700
7	Belgium	1,976	2,070	458	457
8	Spain	1,875	1,897	10	10
9	Poland	1,588	1,544	511	496
10	Switzerland	1,527	1,525	733	728
11	Holland	1,068	1,111	234	245
12	Austria	1,044	1,014	417	398
13	Sweden	605	619	118	116
14	Portugal	503	503	173	173
15	Finland	244	252	46	46
16	Denmark	96	95	6	5
17	Norway	60	52	13	13
18	Total	104,196	104,904	59,545	59,999
	Asia:				
19	India	8,703	8,703	949	949
20	Japan	6,116	6,272	37	42
21	China	3,475	3,504	—	—
22	Total	18,294	18,479	986	991
	America:				
23	United States	36,349	35,542	2,588	2,587
24	Canada	1,153	1,154	205	206
25	Mexico	838	840	—	—
26	Brazil	2,606	2,610	3	3
27	Total	40,946	40,146	2,796	2,796
28	Sundries	1,543	1,574	180	180
29	Grand totals	164,979	165,103	63,507	63,966

omitted) for the Half Years January 31, 1928, and July 31, the International Cotton Federation

RING SPINDLES		SPINNING SPINDLES EGYPTIAN COTTON		SPINDLES IN COURSE OF ERECTION		
HALF-YEAR ENDED		HALF-YEAR ENDED		HALF-YEAR ENDED		
Jan. 31, 1928	July 31, 1928	Jan. 31, 1928	July 31, 1928	Jan. 31, 1928	July 31, 1928	
13,455	13,055	19,001	18,890	174	114	1
6,390	6,523	1,119	1,106	225	133	2
6,065	6,155	2,300	1,672	72	71	3
4,569	4,714	300	300	45	100	4
4,387	4,500	660	700	98	53	5
1,918	1,963	484	488	21	15	6
1,518	1,613	34	30	66	17	7
1,865	1,887	155	130	—	—	8
1,077	1,048	226	47	160	54	9
794	797	911	901	23	20	10
834	866	—	—	9	33	11
627	626	44	55	6	4	12
487	493	14	13	23	10	13
330	330	10	10	—	—	14
198	206	8	5	13	13	15
90	90	—	—	—	—	16
47	39	—	—	—	—	17
44,651	44,905	25,266	24,347	935	637	18
7,754	7,754	23	—	—	56	19
6,079	6,230	564	550	100	200	20
3,475	3,504	—	—	25	25	21
17,308	17,488	587	550	125	281	22
33,761	32,955	2,000	2,000	?	?	23
948	948	73	20	1	—	24
838	840	4	5	4	11	25
2,603	2,607	—	—	1	2	26
38,150	37,350	2,077	2,025	6	13	27
1,363	1,394	124	129	79	16	28
101,472	101,137	28,054	27,051	1,145	947	29

World's Cotton Spindles ¹

As compiled by leading authorities

COTTON YEARS ENDING JULY 31	United States Bureau of the Census	Shepperson's Cotton Facts	Comatelburo's Cotton Handbook	International Federation of Master Cotton Spinners
1900	105,681,000	—	103,115,000	—
1901	—	107,395,000	102,715,145	—
1902	—	—	111,802,010	—
1903	—	—	112,854,077	—
1904	—	—	114,394,712	—
1905	116,764,438	—	118,254,146	—
1906	120,090,595	—	123,229,202	—
1907	123,332,971	124,320,000	126,594,000	114,096,168
1908	130,054,408	—	129,346,714	128,923,659
1909	133,377,000	—	136,903,457	131,503,062
1910	134,526,000	—	139,608,000	133,384,794
1911	137,792,000	—	141,625,000	137,278,752
1912	140,996,000	—	143,142,000	140,693,103
1913	143,398,000	143,730,000	147,191,000	143,452,659
1914	146,397,000	144,980,000	148,891,000	144,704,012
1915	—	148,226,000	150,737,000	—
1916	—	149,785,000	151,667,000	—
1917	148,500,000	151,200,000	154,310,000	—
1918	150,000,000	149,400,000	—	—
1919	150,000,000	153,505,000	153,799,000	—
1920	154,600,000	151,313,000	156,163,000	154,201,462
1921	153,010,000	147,922,000	157,081,000	152,317,054
1922	157,020,000	157,061,000	158,795,000	154,555,267
1923	157,000,000	156,811,000	162,357,000	156,353,000
1924	159,109,000	157,536,464	163,948,835	158,047,000
1925	161,832,000	158,746,784	166,090,536	161,363,000
1926	164,210,000	161,484,000	171,092,662	163,723,000
1927	164,956,000	164,565,000	173,048,733	164,597,000
1928	165,352,000	165,103,000	174,303,458	165,103,000

¹ For those years for which no statistics are given the authorities here quoted either did not compile estimates or their estimates are not available.

Active Cotton Spindles in the United States, by States

[Cotton Years]

Source: United States Bureau of the Census

	1922-23	1923-24	1924-25	1925-26	1926-27	1927-28
New England States:						
Maine	1,137,651	1,133,732	1,130,728	1,104,054	995,562	999,266
New Hampshire	1,384,757	1,238,078	1,245,968	1,227,662	1,179,572	1,121,594
Vermont	144,808	144,808	144,808	115,702	144,558	116,904
Massachusetts	11,222,741	10,589,228	9,766,276	9,488,374	9,231,976	8,319,994
Rhode Island	2,837,903	2,732,520	2,524,842	2,455,046	2,322,420	2,178,312
Connecticut	1,325,856	1,227,670	1,162,820	1,134,834	1,121,372	1,079,172
Total New England States	18,053,716	17,066,036	15,975,442	15,525,672	14,995,460	13,815,242
Other Non-Cotton-growing States:						
New York	1,000,234	951,640	873,180	830,652	753,172	750,532
New Jersey	440,560	437,854	480,112	405,324	378,444	353,162
Pennsylvania	164,507	169,216	145,788	141,514	114,334	105,144
Maryland	112,024	104,500	92,252	92,724	85,524	73,704
Indiana	80,756	81,480	81,980	81,984	82,788	84,436
Illinois	58,720	58,782	57,896	56,804	58,920	59,072
Other	39,124	35,652	36,554	41,142	47,360	46,746
Total Other Non-Cotton-growing States	1,895,925	1,839,124	1,764,762	1,650,144	1,520,542	1,472,796
Cotton-growing States:						
Virginia	654,785	688,870	694,354	694,642	691,302	685,756
North Carolina	5,463,547	5,763,334	5,909,666	5,943,208	6,094,136	6,132,564
South Carolina	5,107,038	5,215,828	5,295,170	5,347,050	5,376,034	5,472,398
Georgia	2,682,730	2,757,480	2,807,756	2,900,994	2,941,222	3,052,474
Alabama	1,294,512	1,356,638	1,421,884	1,441,522	1,487,556	1,602,534
Mississippi	178,508	177,508	142,212	140,692	154,312	159,746
Tennessee	437,168	459,160	468,564	546,604	580,776	591,172
Kentucky	92,684	91,284	92,762	93,890	83,610	83,202
Louisiana	94,748	94,748	89,564	95,564	100,764	100,764
Texas	175,104	193,100	225,862	226,272	253,068	252,960
Other	129,536	146,228	144,248	144,012	131,128	148,184
Total Cotton-growing States	16,310,360	16,944,178	17,292,042	17,574,450	17,893,908	18,281,754
Total United States	36,260,001	35,849,338	35,032,246	34,750,266	34,409,910	33,569,792

United States Cotton Spinning Spindles in Place, by States

Source: United States Bureau of the Census

COTTON YEAR ENDING JULY 31	Massachusetts	Rhode Island	New Hampshire	Maine	Connecticut	Vermont	New York	New Jersey	Pennsylvania	Maryland
1890	5,872,852	1,959,294	1,198,643	892,762	939,155	71,591	629,324	374,442	496,551	161,786
1900	7,932,883	1,976,198	1,249,875	848,377	1,064,016	100,028	764,492	431,730	336,509	154,064
1906	8,790,793	2,130,938	1,296,445	912,593	1,174,327	102,264	806,254	417,679	288,143	134,112
1907	9,167,698	2,231,461	1,357,877	1,007,717	1,268,065	130,752	1,011,368	440,354	400,395	151,384
1908	9,446,380	2,388,105	1,320,503	978,188	1,240,296	107,324	928,316	447,029	268,310	151,000
1909	9,688,637	2,399,440	1,313,581	1,005,258	1,253,582	105,184	942,521	460,888	275,654	152,266
1910	9,703,573	2,412,272	1,440,173	1,037,176	1,282,232	105,184	970,445	463,403	297,799	153,010
1911	10,613,290	2,526,995	1,462,788	1,066,552	1,270,071	105,276	963,969	483,057	280,202	160,114
1912	11,066,846	2,552,743	1,453,778	1,052,674	1,307,907	136,892	925,576	485,176	265,715	158,168
1913	11,075,684	2,533,380	1,469,137	1,096,986	1,308,650	136,304	956,595	476,731	249,837	162,288
1914	11,046,990	2,574,942	1,466,580	1,117,228	1,340,482	136,304	967,578	477,779	252,685	166,240
1915	10,914,087	2,567,644	1,408,390	1,104,209	1,335,282	136,304	963,748	481,255	259,965	157,380
1916	11,104,810	2,611,553	1,465,013	1,108,790	1,362,186	135,864	913,979	482,831	256,913	151,904
1917	11,280,351	2,653,397	1,459,853	1,099,278	1,372,860	135,864	938,158	491,843	256,314	147,764
1918	11,512,247	2,683,451	1,462,462	1,096,255	1,376,554	135,864	983,893	487,755	262,896	153,531
1919	11,630,397	2,678,180	1,444,074	1,111,940	1,387,517	141,224	980,321	489,647	266,003	145,208
1920	11,758,613	2,675,892	1,443,776	1,127,138	1,392,547	144,808	997,542	417,837	259,715	145,460
1921	11,810,563	2,805,538	1,457,428	1,126,452	1,388,949	144,808	1,017,163	424,145	268,878	142,792
1922	11,922,573	2,829,202	1,448,660	1,146,440	1,364,656	144,808	1,019,528	433,983	236,263	130,024
1923	11,951,334	2,876,708	1,449,700	1,140,928	1,366,668	144,808	1,037,418	447,152	203,305	131,104
1924	11,792,100	2,797,766	1,448,406	1,137,704	1,254,868	144,808	1,024,290	442,424	195,300	131,296
1925	11,597,424	2,787,638	1,445,734	1,118,236	1,238,814	144,808	995,878	513,032	157,780	94,152
1926	11,417,406	2,612,680	1,438,662	1,130,568	1,202,036	144,808	916,126	415,604	142,722	92,724
1927	10,511,966	2,468,790	1,430,238	1,118,316	1,167,240	144,808	872,880	378,444	120,172	92,724
1928	9,349,991	2,325,814	1,414,518	1,106,036	1,121,884	144,808	802,304	378,936	114,164	80,904

United States Cotton Spinning Spindles in Place, by States — (Concluded)

Source: United States Bureau of the Census

COTTON YEAR ENDING JULY 31	Source: United States Bureau of the Census								
	Alabama	Georgia	Louisiana	Mississippi	North Carolina	South Carolina	Tennessee	Texas	Virginia
1890	79,234	445,452	46,200	57,004	337,786	332,784	97,524	15,000	94,294
1900	411,328	815,545	55,600	75,122	1,133,432	1,431,349	123,896	48,756	126,827
1906	870,154	1,573,450	95,200	165,188	2,396,703	3,367,204	258,794	101,759	253,206
1907	904,244	1,682,506	88,724	173,064	2,681,386	3,609,969	253,148	109,892	272,710
1908	939,942	1,792,790	89,552	173,216	2,944,404	3,713,006	265,198	106,924	295,579
1909	984,534	1,831,742	89,152	176,640	3,010,367	3,819,149	272,856	106,528	315,676
1910	968,239	1,833,244	87,070	185,280	3,062,061	3,833,901	272,774	108,778	329,174
1911	967,564	1,980,813	86,588	183,662	3,353,706	4,187,317	253,460	113,100	372,816
1912	985,968	2,025,238	86,088	191,092	3,403,996	4,327,178	254,278	114,352	414,148
1913	1,000,080	2,103,018	86,095	192,306	3,593,999	4,536,353	271,634	123,908	426,920
1914	1,058,685	2,160,571	86,095	190,216	3,813,940	4,632,204	296,620	124,628	477,886
1915	1,075,859	2,178,573	79,763	184,636	3,915,842	4,710,826	320,052	124,848	513,434
1916	1,126,846	2,275,929	79,563	166,984	4,053,206	4,743,193	319,148	128,762	516,166
1917	1,136,786	2,422,810	93,408	167,604	4,375,283	4,851,161	350,352	128,112	528,394
1918	1,169,624	2,482,131	96,832	166,932	4,591,026	4,903,840	367,503	132,236	524,194
1919	1,292,294	2,518,059	102,944	155,756	4,789,322	4,955,765	373,695	140,054	580,310
1920	1,215,268	2,542,155	103,128	174,714	4,954,935	4,974,460	399,963	145,054	575,610
1921	1,283,096	2,648,325	103,128	176,778	5,228,266	5,013,538	415,593	166,468	488,982
1922	1,300,699	2,679,379	101,128	172,612	5,292,880	5,090,088	427,832	168,192	633,870
1923	1,330,162	2,693,535	100,748	178,508	5,509,183	5,132,364	438,696	176,444	673,306
1924	1,392,778	2,798,242	100,748	182,508	5,858,762	5,263,258	456,992	207,248	707,314
1925	1,432,378	2,885,166	100,748	185,192	5,982,076	5,321,264	544,424	239,596	711,314
1926	1,470,024	2,911,590	95,564	177,836	6,075,168	5,355,320	567,500	239,828	711,314
1927	1,523,490	2,969,332	100,764	175,644	6,198,606	5,402,540	588,318	268,848	711,378
1928	1,627,624	3,080,568	100,764	176,604	6,191,580	5,491,604	602,228	282,196	709,056

Cotton Spindles in Place and Spindle Hours, by Months

[Cotton Years]

Source: United States Bureau of the Census

MONTH AND STATE	COTTON SPINDLES IN PLACE			ACTIVE SPINDLE HOURS		
	1925-26	1926-27	1927-28	1925-26	1926-27	1927-28
MONTHS						
United States:						
August	37,913,678	37,524,376	36,556,970	6,935,296,870	7,486,820,532	8,971,280,998
September	37,893,264	37,423,770	36,558,470	7,106,620,234	8,256,617,505	8,775,680,251
October	37,894,066	37,425,076	36,560,284	7,963,201,278	8,366,819,617	8,727,413,852
November	37,907,748	37,420,798	36,527,846	7,824,865,192	8,483,083,401	8,689,893,057
December	37,871,936	37,364,730	36,465,976	8,261,296,953	8,585,488,609	7,859,373,806
January	37,841,892	37,462,208	36,335,052	8,356,410,777	8,554,496,234	8,262,659,275
February	37,858,358	37,222,282	36,136,202	8,120,989,511	8,238,917,292	7,970,427,959
March	37,856,574	37,017,908	36,000,538	9,168,726,450	9,638,035,839	8,310,426,340
April	37,711,754	36,913,420	35,921,856	8,344,768,781	8,788,077,771	7,414,702,817
May	37,701,534	36,842,910	35,808,122	7,502,511,278	8,983,483,237	7,966,275,313
June	37,680,268	36,821,934	35,735,742	7,606,036,127	9,190,619,760	7,251,771,207
July	37,586,166	36,695,516	35,539,956	6,750,357,310	8,032,943,681	6,251,145,062
Cotton-growing States:						
August	17,633,312	17,879,194	18,199,666	4,276,181,226	4,865,440,157	5,909,605,312
September	17,659,356	17,877,038	18,228,602	4,386,448,950	5,332,061,031	5,804,917,183
October	17,704,802	17,895,160	18,250,564	4,771,823,551	5,306,356,541	5,696,630,787
November	17,721,354	17,925,248	18,376,104	4,884,528,910	5,503,532,638	5,827,612,493
December	17,747,124	17,897,622	18,390,372	5,085,915,069	5,430,973,722	5,191,737,189
January	17,743,152	18,112,244	18,412,244	5,290,802,703	5,502,064,885	5,668,761,973
February	17,770,718	18,028,970	18,434,320	5,076,624,154	5,270,018,945	5,347,360,931
March	17,834,932	18,063,992	18,438,574	5,633,371,248	6,098,058,493	5,508,345,109
April	17,842,468	18,107,172	18,465,762	5,219,404,701	5,639,302,724	5,150,397,972
May	17,852,144	18,126,514	18,458,790	4,678,043,827	5,779,113,995	5,639,842,672
June	17,864,412	18,143,772	18,482,942	4,778,964,829	5,854,749,711	5,115,318,145
July	17,874,750	18,169,026	18,508,322	4,435,605,222	5,283,306,856	4,412,040,774
New England:						
August	18,327,346	17,880,560	16,710,980	2,391,972,175	2,358,593,681	2,756,697,072
September	18,272,552	17,823,404	16,683,332	2,398,740,145	2,615,389,640	2,650,777,236
October	18,240,112	17,808,700	16,661,960	2,831,183,492	2,739,998,985	2,712,392,078
November	18,237,380	17,780,766	16,505,518	2,613,175,387	2,657,674,743	2,562,235,562
December	18,174,838	17,750,526	16,428,884	2,800,407,533	2,840,148,221	2,391,433,350
January	18,171,722	17,651,446	16,279,040	2,716,634,079	2,741,866,428	2,329,093,631
February	18,164,642	17,494,488	16,068,646	2,721,948,581	2,665,697,675	2,355,336,031
March	18,170,398	17,271,212	15,934,528	3,171,486,487	3,180,442,956	2,511,674,640
April	18,092,890	17,136,142	15,828,658	2,775,785,636	2,840,690,049	2,007,546,607
May	18,072,214	17,047,892	15,745,320	2,532,002,300	2,901,486,955	2,059,498,389
June	18,039,500	17,021,558	15,680,784	2,521,842,750	3,016,975,576	2,082,171,874
July	17,946,160	16,871,358	15,463,054	2,066,249,346	2,493,244,860	1,633,348,105
All other States:						
August	1,953,020	1,764,622	1,646,324	267,143,469	262,786,694	304,978,614
September	1,961,356	1,723,328	1,646,536	321,431,139	309,166,854	319,985,832
October	1,949,122	1,721,216	1,647,760	360,194,235	320,464,091	318,390,987
November	1,949,014	1,714,784	1,646,224	327,160,895	321,876,020	300,045,002
December	1,949,974	1,716,582	1,646,720	374,974,351	314,366,666	276,203,267
January	1,927,018	1,698,518	1,643,768	348,975,995	310,564,921	264,803,671
February	1,922,998	1,698,824	1,633,236	322,416,776	303,200,672	267,730,997
March	1,851,244	1,682,704	1,627,436	363,868,715	359,534,390	290,406,582
April	1,776,396	1,670,106	1,627,436	349,578,444	308,084,998	256,758,238
May	1,777,176	1,668,204	1,604,012	292,465,151	302,882,287	266,934,252
June	1,776,356	1,656,604	1,572,016	305,228,548	318,894,473	244,281,188
July	1,765,256	1,655,132	1,568,580	248,502,742	256,391,965	205,756,183
STATES						
Total	37,586,166	36,695,516	35,539,956	93,941,080,761	102,605,403,478	96,451,049,937
Cotton-growing						
New England	17,874,750	18,169,026	18,508,322	58,517,714,390	65,864,979,698	65,272,570,540
All other	17,946,160	16,871,358	15,463,054	31,541,427,911	33,052,209,769	27,862,204,584
All other						
STATES	1,765,256	1,655,132	1,568,580	3,881,938,460	3,688,214,011	3,316,274,813

Spindles in Place and Spindle Hours, by States

[Cotton Years]

Source: United States Bureau of the Census

STATES	COTTON SPINDLES IN PLACE			ACTIVE SPINDLE HOURS		
	1925-26	1926-27	1927-28	1925-26	1926-27	1927-28
Total	37,586,166	36,695,516	35,539,956	93,941,080,761	102,605,403,478	96,451,049,937
Cotton-growing	17,874,750	18,169,026	18,508,322	58,517,714,390	65,864,979,698	65,272,570,540
New England	17,946,160	16,871,358	15,463,054	31,541,427,911	33,052,209,769	27,862,204,584
All other	1,765,256	1,655,132	1,568,580	3,881,938,460	3,688,214,011	3,316,274,813
Alabama	1,470,024	1,523,490	1,627,624	4,785,353,212	5,084,877,770	5,213,267,979
Connecticut	1,202,036	1,167,240	1,121,884	2,441,473,291	2,544,306,990	2,567,401,089
Georgia	2,911,590	2,969,332	3,080,568	9,315,107,275	10,269,862,077	10,734,436,366
Maine	1,130,568	1,118,316	1,106,036	2,139,527,649	2,117,175,726	1,990,658,147
Massachusetts	11,417,406	10,541,966	9,349,994	18,938,121,787	20,116,191,565	15,785,208,745
New Hampshire	1,438,662	1,430,238	1,414,518	2,572,495,341	2,744,839,466	2,591,268,900
New Jersey	415,604	378,444	378,936	957,155,975	757,072,479	730,303,556
New York	916,126	872,880	802,304	1,920,849,537	1,921,724,016	1,704,368,233
North Carolina	6,075,168	6,198,606	6,191,580	19,952,947,406	23,002,232,377	22,045,148,737
Pennsylvania	142,722	120,172	114,164	309,590,029	259,216,091	220,769,310
Rhode Island	2,612,680	2,468,790	2,325,814	5,217,301,431	5,196,827,151	4,633,455,490
South Carolina	5,355,320	5,402,540	5,491,604	18,826,171,662	21,427,606,880	21,101,986,183
Tennessee	567,500	588,318	602,228	1,662,560,879	1,945,362,447	2,123,760,500
Texas	239,828	268,848	282,196	791,595,476	902,495,262	835,146,370
Virginia	711,314	711,378	709,056	1,770,597,532	1,838,849,548	1,659,938,872
All other States	979,618	934,958	941,450	2,340,232,279	2,476,763,633	2,513,661,460

Activity and Normal Operation of American Cotton Industry

Source: United States Bureau of the Census

MONTH	NORMAL DAYS OF OPERATION				PERCENTAGE OF ACTIVITY ON A SINGLE-SHIFT BASIS			
	1924-25	1925-26	1926-27	1927-28	1924-25	1925-26	1926-27	1927-28
August	26	26	26	27	63.0	80.1	87.4	102.9
September	25½	25½	25½	25½	76.4	83.8	98.5	106.6
October	26¾	26¾	25¾	25¾	86.2	89.5	98.9	105.0
November	24½	24½	25½	25¼	87.8	96.0	101.3	106.7
December	26	25	26	26	90.7	99.4	100.7	93.9
January	26½	25½	25½	25½	97.2	98.6	102.0	101.0
February	23¾	23¾	23¾	24¾	100.5	103.2	106.5	101.3
March	26	27	27	27	100.0	102.2	109.8	96.8
April	25¾	25¾	25¾	24¾	100.2	98.2	105.6	94.8
May	25½	25½	25½	26½	93.8	88.9	108.9	95.1
June	26	26	26	26	89.2	88.4	109.3	88.4
July	26	26	25½	25	84.6	78.7	99.1	79.7

Spindles in Place in Leading Counties, July 31, 1928

Source: United States Bureau of the Census

COUNTY	Spindles (Number)	COUNTY	Spindles (Number)	COUNTY	Spindles (Number)
Bristol, Mass.	6,777,740	Madison, Ala.	287,096	Tallapoosa, Ala.	168,180
Providence, R. I.	1,548,950	Richmond, N. C.	267,608	Lancaster, S. C.	163,928
Gaston, N. C.	1,168,402	York, S. C.	266,758	Kennebec, Me.	163,888
Spartanburg, S. C.	968,728	Richland, S. C.	252,792	Floyd, Ga.	162,188
Hillsborough, N. H.	885,700	Hudson, N. J.	242,024	Hampshire, Mass.	150,080
Greenville, S. C.	773,996	Cherokee, S. C.	233,764	Chester, S. C.	148,648
Windham, Conn.	610,792	Pickens, S. C.	231,698	Halifax, N. C.	147,080
Anderson, S. C.	605,474	Albany, N. Y.	229,960	Hall, Ga.	145,620
Worcester, Mass.	506,880	Laurens, S. C.	229,504	Spalding, Ga.	139,992
Hampden, Mass.	493,500	Bristol, R. I.	223,164	Cumberland, Me.	138,400
Berkshire, Mass.	490,296	Rowan, N. C.	220,376	Catawba, N. C.	131,104
New London, Conn.	472,236	Fulton, Ga.	207,548	Davidson, N. C.	130,636
Pittsylvania, Va.	467,440	Rutherford, N. C.	207,300	Iredell, N. C.	127,260
Cabarrus, N. C.	454,208	Rockingham, N. C.	202,852	Lincoln, N. C.	122,624
Muscooke, Ga.	450,436	Aiken, S. C.	199,520	Upson, Ga.	122,016
Kent, R. I.	444,924	Chambers, Ala.	196,312	Caldwell, N. C.	119,080
Androscoggin, Me.	425,996	Troup, Ga.	196,012	Chattooga, Ga.	118,292
Middlesex, Mass.	418,174	Cleveland, N. C.	195,854	Hamilton, Tenn.	116,264
Essex, Mass.	406,620	Newberry, S. C.	193,784	McDowell, N. C.	114,464
York, Me.	377,752	Richmond, Ga.	189,992	Coweta, Ga.	113,240
Union, S. C.	346,308	Knox, Tenn.	187,236	Robeson, N. C.	109,936
Oneida, N. Y.	327,976	Alamance, N. C.	183,964	Oronee, S. C.	106,828
Strafford, N. H.	325,192	Stanly, N. C.	180,248	Merrimack, N. H.	105,404
Guilford, N. C.	304,844	Durham, N. C.	174,928	Newton, Ga.	104,568
Mecklenburg, N. C.	300,516	Calhoun, Ala.	173,364	Etowah, Ala.	103,496
Greenwood, S. C.	289,116	Talladega, Ala.	170,574	Vance, N. C.	101,184

Active Ring and Mule Spindles

[Cotton Year]

Source: United States Bureau of the Census

STATE	NUMBER OF ACTIVE COTTON SPINDLES							
	1898-99		1908-09		1918-19		1927-28	
	Ring	Mule	Ring	Mule	Ring	Mule	Ring	Mule
United States	13,444,872	5,563,480	23,256,023	4,922,839	31,561,268	3,369,666	31,985,350	1,584,442
Alabama	403,328	8,000	909,587	3,916	1,170,658	3,640	1,602,534	-
Connecticut	607,448	393,126	832,830	446,586	932,813	402,578	770,384	308,788
Georgia	730,619	84,926	1,703,071	71,896	2,451,101	48,230	3,026,230	26,244
Illinois	15,488	16,000	23,240	16,000	45,838	11,705	59,072	-
Indiana	86,168	16,320	115,152	8,952	81,256	-	84,436	-
Kentucky	48,234	18,399	68,124	16,920	76,968	16,520	80,372	2,830
Louisiana	55,600	-	63,096	4,806	102,944	-	100,764	-
Maine	584,573	256,948	867,364	161,316	1,064,892	42,160	979,506	19,760
Maryland	154,064	-	133,302	-	140,940	-	73,704	-
Massachusetts	5,228,371	2,556,316	7,480,902	2,156,699	9,743,150	1,633,153	7,586,412	733,582
Mississippi	75,122	-	159,104	800	143,874	-	159,746	-
New Hampshire	956,390	287,165	1,169,850	156,050	1,410,947	23,008	1,111,120	10,474
New Jersey	64,638	367,092	107,381	313,403	204,355	276,012	216,482	136,680
New York	353,132	367,136	547,512	415,329	862,981	113,680	745,162	5,370
North Carolina	1,098,080	35,352	2,886,453	71,782	4,736,288	33,840	6,116,356	16,208
Pennsylvania	182,190	124,447	139,062	139,245	155,228	96,605	103,384	1,760
Rhode Island	940,294	940,328	1,496,434	875,343	2,037,036	634,896	1,877,758	300,554
South Carolina	1,420,597	10,752	3,732,063	28,828	4,907,745	2,460	5,471,998	400
Tennessee	103,116	20,780	237,530	10,000	355,138	13,401	581,172	10,000
Texas	48,756	-	97,628	-	140,054	-	252,960	-
Vermont	56,712	43,316	75,872	15,840	131,024	10,200	106,704	10,200
Virginia	124,502	2,325	316,970	7,572	552,440	7,050	684,521	1,232
All other States	107,450	14,752	93,496	1,556	113,598	600	194,570	360

Number of Active Ring and Mule Cotton Spindles in the United States, for Selected Years, 1889 to 1928

United States Bureau of the Census

COTTON YEAR ENDING JULY 31	Total	Ring	Mule
1889 ¹	14,188,103	8,824,617	5,363,486
1899 ¹	19,008,352	13,444,872	5,563,480
1904	23,672,064	18,218,800	5,453,264
1909	28,178,862	23,256,023	4,922,839
1912	30,578,528	26,211,979	4,366,549
1913	31,519,766	27,380,573	4,139,193
1914	32,107,572	28,016,390	4,091,182
1915	31,964,235	28,122,792	3,841,443
1916	32,805,883	29,094,263	3,711,620
1917	33,888,835	30,264,074	3,624,761
1918	34,542,665	31,020,749	3,521,916
1919	34,930,934	31,561,268	3,369,666
1920	35,480,953	32,222,325	3,258,628
1921	36,047,367	32,993,331	3,054,036
1922	35,707,738	33,089,667	2,618,071
1923	36,260,001	33,786,015	2,473,986
1924	35,849,338	33,529,602	2,319,736
1925	35,032,246	32,959,642	2,072,604
1926	34,750,266	32,797,096	1,953,170
1927	34,409,910	32,727,676	1,682,234
1928	33,569,792	31,985,350	1,584,442

¹ Includes only spindles in establishments classified as cotton goods.

Cotton Mills in Southern States

[Calendar Years]

Source: New Orleans Cotton Exchange

STATES	1922	1923	1924	1925	1926	1927	1928
Virginia	14	14	14	14	14	14	15
North Carolina	425	437	444	445	448	447	440
South Carolina	202	206	201	205	207	207	208
Georgia	161	164	167	166	170	173	172
Alabama	83	84	84	85	88	90	99
Mississippi	18	18	18	18	17	17	17
Tennessee	25	28	28	29	29	30	30
Kentucky	6	5	6	6	6	5	5
Missouri	2	2	2	2	2	2	2
Arkansas	2	2	2	3	3	6	7
Louisiana	5	5	5	5	4	5	5
Texas	22	22	25	30	32	33	33
Oklahoma	1	2	2	2	2	2	2
Total	966	989	998	1,010	1,022	1,031	1,035

Size of Cotton Manufacturing Establishments

[Calendar Years]

[Based on Statistics of United States Bureau of the Census]

	Establish- ments	Wage Earners	Wage Earners per Estab- lishment	Active Spindles (000 omitted)	Active Spindles per Estab- lishment	Looms	Looms per Estab- lishment
1879 .	756	172,544	228	10,653	14,091	225,759	298
1889 .	905	218,876	242	14,188	15,677	324,866	358
1899 .	1,055	302,861	287	19,051	18,058	450,682	427
1904 .	1,154	315,874	274	23,195	20,100	540,910	468
1909 .	1,324	378,880	286	27,426	20,715	632,963	477
1914 .	1,328	393,404	296	30,915	23,279	672,754	506
1919 .	1,496	446,852	299	33,796	22,591	692,169	462
1921 .	1,527	425,817	278	33,071	21,658	— ¹	— ¹
1923 .	1,643	497,378	302	36,260	22,069	— ¹	— ¹
1925 .	1,638	468,352	285	35,032	21,381	— ¹	— ¹
1927 .	1,610	489,036	304	34,410	21,372	715,046	444

¹ Not available.

Cotton Looms in the United States

[Calendar Years]

Source: United States Bureau of the Census

Type	NEW ENGLAND		COTTON GROWING		ALL OTHER		UNITED STATES	
	1919	1927	1919	1927	1919	1927	1919	1927
Total	370,408	341,560	268,010	327,639	53,751	45,847	692,169	715,046
Plain, total								
Non-automatic	294,611	248,360	248,493	277,408	40,446	30,269	583,550	556,037
2-harness	167,495	103,714	70,939	36,317	18,647	5,718	257,081	145,749
2-harness, box	101,445	54,722	39,896	19,411	12,942	3,243	154,283	77,376
More than 2-harness	11,351	9,685	17,258	8,731	1,003	357	20,612	18,773
More than 2-harness, box	42,702	34,983	9,879	4,277	2,536	763	55,117	40,023
Automatic	11,997	4,324	3,006	3,898	2,166	1,355	18,069	9,577
2-harness	127,116	144,646	177,554	241,091	21,799	24,551	326,469	410,288
2-harness, box	57,848	76,164	127,483	159,162	12,786	12,445	197,685	247,771
More than 2-harness	2,507	9,849	8,102	10,195	163	874	10,772	20,918
More than 2-harness, box	62,953	51,536	37,824	64,624	8,227	11,129	109,004	127,289
	4,808	7,097	4,145	7,110	55	103	9,008	14,310
Fancy, total	75,741	87,329	19,313	48,910	13,134	15,087	108,188	151,326
Non-automatic	62,493	63,295	8,811	15,062	8,477	8,055	79,781	86,412
Dobby	42,081	35,737	4,373	4,189	2,363	813	48,817	40,739
Dobby, box	9,335	17,283	2,812	9,037	2,769	2,029	14,916	28,349
Jacquard	6,166	4,429	1,349	953	1,145	1,944	8,660	7,326
Jacquard, box	4,911	5,846	277	883	2,200	3,269	7,388	9,998
Automatic	13,248	24,034	10,502	33,848	4,657	7,032	28,407	61,914
Dobby	10,783	16,359	5,800	18,781	3,791	5,966	20,434	41,106
Dobby, box	879	3,966	2,313	10,846	172	620	3,364	15,432
Jacquard	982	1,622	2,045	2,351	680	141	3,707	4,114
Jacquard, box	604	2,087	284	1,870	14	305	902	4,262
Unclassified	-	5,790	-	1,316	-	236	-	7,342
Webbing and ribbon looms	56	81	204	5	171	255	431	341

Active Looms in the Cotton Goods Industry by States for 1927

[Calendar Year]

Source: United States Bureau of the Census

	United States	Alabama	Connecticut	Georgia	Indiana	Kentucky	Maine	Maryland	Massachusetts	Mississippi	New Hampshire
Total	670,068	25,610	21,880	53,708	1,812	1,444	22,355	1,105	181,462	4,326	26,591
Plain, total	520,506	25,116	16,677	46,931	1,812	1,376	19,973	947	122,164	3,902	22,814
Non-automatic	125,233	2,910	5,691	5,647	-	1,029	15	777	69,477	832	3,438
2-harness	69,130	2,910	1,103	3,111	-	1,029	3	725	41,247	564	602
2-harness, box	11,973	-	97	168	-	-	-	-	812	48	2,419
More than 2-harness	36,189	-	2,265	1,617	-	-	-	30	26,883	230	417
More than 2-harness, box	7,941	-	2,226	751	-	-	12	22	535	-	-
Automatic	335,273	22,206	10,986	41,284	1,812	347	19,958	170	52,687	3,070	19,376
2-harness	342,005	10,328	1,672	19,879	1,188	347	8,792	116	34,056	2,222	8,635
2-harness, box	17,543	508	-	1,872	-	-	1,208	8	2,469	-	531
More than 2-harness	121,651	11,046	9,314	17,525	624	-	9,958	46	14,342	848	5,141
More than 2-harness, box	14,074	324	-	2,008	-	-	-	-	1,820	-	5,069
Fancy, total	141,884	494	5,203	5,460	-	68	2,382	31	53,513	424	3,774
Non-automatic	78,944	124	4,631	1,129	-	20	825	31	40,283	74	1,797
Dobby	37,226	124	2,326	500	-	-	599	-	26,436	-	10
Dobby, box	26,403	-	1,866	306	-	20	30	-	8,935	-	1,245
Jacquard	6,681	-	266	81	-	-	-	20	3,255	-	-
Jacquard, box	8,634	-	173	242	-	-	196	11	1,657	74	542
Automatic	62,940	370	572	4,331	-	48	1,557	-	13,230	350	1,977
Dobby	40,154	174	456	3,671	-	48	383	-	10,308	342	1,732
Dobby, box	15,135	82	116	508	-	-	787	-	1,935	8	231
Jacquard	3,546	80	-	40	-	-	265	-	284	-	14
Jacquard, box	4,105	34	-	112	-	-	122	-	703	-	-
Unclassified	7,337	-	-	1,316	-	-	-	-	5,779	-	-
Webbing and ribbon looms	341	-	-	1	-	-	-	127	6	-	3

Active Looms in the Cotton Goods Industry by States for 1927 — (Concluded)

[Calendar Year]

Source: United States Bureau of the Census

	New Jersey	New York	North Carolina	Pennsylvania	Rhode Island	South Carolina	Tennessee	Texas	Vermont	Virginia	Other States
Total	3,486	12,082	86,783	10,105	47,146	128,547	8,528	5,638	3,356	18,976	5,128
Plain, total	950	9,107	64,090	4,175	32,350	113,975	6,160	5,475	3,340	14,735	4,437
Non-automatic	515	313	9,982	2,063	5,263	11,395	—	2,002	1,821	1,889	174
2-harness	182	215	2,245	562	3,139	7,848	—	1,989	1,821	—	135
2-harness, box	198	9	3,601	102	—	2,880	—	20	—	1,615	4
More than 2-harness	87	30	1,537	413	1,897	650	—	108	—	—	35
More than 2-harness, box	48	59	2,599	986	227	17	—	185	—	274	—
Automatic	435	8,794	54,108	2,112	27,087	102,580	6,160	3,473	1,519	12,846	4,263
2-harness	108	3,446	30,969	1,340	17,660	83,037	4,061	2,275	100	10,036	1,738
2-harness, box	112	—	4,321	21	2,342	1,794	729	212	—	1,416	—
More than 2-harness	203	5,335	15,218	673	6,941	17,655	1,370	986	1,419	482	2,525
More than 2-harness, box	12	13	3,600	78	144	94	—	—	—	912	—
Fancy, total	2,502	2,975	22,689	5,661	14,713	14,572	2,368	163	16	4,241	635
Non-automatic	1,033	846	8,172	5,167	9,400	4,982	85	15	—	304	26
Dobby	33	492	1,645	256	2,880	1,778	—	—	—	140	7
Dobby, box	59	38	5,301	1,783	3,492	3,128	25	15	—	160	—
Jacquard	400	50	722	1,229	592	60	—	—	—	—	6
Jacquard, box	541	266	504	1,899	2,436	16	60	—	—	4	13
Automatic	1,469	2,129	14,517	494	5,313	9,590	2,283	148	16	3,937	609
Dobby	1,468	2,079	4,593	—	2,822	8,555	1,984	—	16	1,136	387
Dobby, box	1	8	6,753	232	600	789	298	148	—	2,528	81
Jacquard	—	39	1,713	20	750	194	—	—	—	65	82
Jacquard, box	—	3	1,458	242	1,141	52	1	—	—	178	59
Unclassified	—	—	—	231	11	—	—	—	—	—	—
Webbing and ribbon looms	34	—	4	38	72	—	—	—	—	—	56

Idle Looms in the Cotton Goods Industry by States for 1927 — (Concluded)
[Calendar Year]

Source: United States Bureau of the Census

	New Jersey	New York	North Carolina	Pennsylvania	Rhode Island	South Carolina	Tennessee	Texas	Vermont	Virginia	Other States
Total	240	186	1,309	1,547	1,935	70	61	-	-	116	76
Plain, total	221	150	963	801	606	50	41	-	-	48	76
Non-automatic	197	90	850	484	264	-	-	-	-	-	76
2-harness	123	70	340	148	99	-	-	-	-	-	54
2-harness, box	44	-	363	-	-	-	-	-	-	-	-
More than 2-harness	30	20	145	96	72	-	-	-	-	-	22
More than 2-harness, box	-	-	2	240	93	-	-	-	-	-	-
Automatic	24	60	113	317	342	50	41	-	-	48	-
2-harness	24	60	49	4	8	50	1	-	-	15	-
2-harness, box	-	-	12	313	200	-	40	-	-	33	-
More than 2-harness	-	-	-	-	74	-	-	-	-	-	-
More than 2-harness, box	-	-	52	-	60	-	-	-	-	-	-
Fancy, total	19	36	346	741	1,329	20	20	-	-	68	-
Non-automatic	19	36	192	741	1,096	-	20	-	-	-	-
Dobby	13	-	2	12	491	-	-	-	-	-	-
Dobby, box	-	-	82	92	298	-	10	-	-	-	-
Jacquard	2	34	65	183	70	-	-	-	-	-	-
Jacquard, box	2	2	43	454	237	-	10	-	-	-	-
Automatic	-	-	154	-	233	20	-	-	-	68	-
Dobby	-	-	-	-	13	-	-	-	-	-	-
Dobby, box	-	-	-	-	4	-	-	-	-	-	-
Jacquard	-	-	154	-	118	20	-	-	-	32	-
Jacquard, box	-	-	-	-	98	-	-	-	-	36	-
Unclassified	-	-	-	5	-	-	-	-	-	-	-

The World's Cotton Mills, 1928

Source: Comtelburo's Cotton Handbook

COUNTRY	Mills	Spindles	Looms	Consumption (Bales)	Hands employed
Great Britain 1928	1,842	60,355,871	754,940	3,019,698	625,000
United States, North 1927	692	18,528,845	406,928	2,569,081	236,000
United States, South 1928	984	18,294,998	340,451	5,316,168	186,000
Canada 1927	48	1,291,190	28,098	235,228	28,000
Germany 1928	300	11,020,000	250,000	2,248,411	102,000
Russia 1928	198	12,700,000	312,000	929,174	459,055
Poland 1928	64	1,441,582	41,190	349,500	74,000
Finland 1928	6	246,400	6,800	39,000	8,200
Esthonia 1928	8	200,000	3,600	27,000	5,000
Latvia 1928	8	43,000	454	8,000	1,580
France 1928	585	9,770,000	191,800	1,132,000	195,000
Hungary 1928	36	150,000	11,650	34,000	12,000
Austria 1928	86	1,043,600	14,573	166,590	19,000
Czechoslovakia 1928	86	3,600,000	110,000	342,000	120,000
Jugo-Slavia 1928	30	112,694	7,173	40,000	11,000
Switzerland 1928	64	1,526,599	27,100	113,700	27,300
Italy 1928	700	5,130,000	150,000	903,000	250,000
Spain 1928	300	1,900,000	71,000	400,000	125,000
Portugal 1928	52	503,000	22,000	60,000	30,000
Belgium 1928	227	2,152,000	54,500	275,000	37,800
Holland 1928	106	1,010,000	50,900	155,000	38,700
Sweden 1928	35	605,000	16,000	95,000	14,000
Norway 1928	15	61,438	2,990	7,000	2,750
Denmark 1928	36	95,968	5,891	21,952	3,162
Turkey 1927	1	5,000	—	3,325	—
Bulgaria 1923	8	27,311	560	—	250
Cyprus 1928	1	1,800	—	400	70
Greece 1928	85	200,000	2,200	36,000	10,000
Roumania 1927	2	33,300	5,000	48,500	6,500
Egypt 1928	1	40,000	800	15,000	1,200
Asia Minor 1927	6	50,000	3,325	36,750	3,030
India 1927	336	8,702,760	161,952	2,417,412	384,623
China 1928	133	3,588,483	25,980	1,800,000	210,000
Japan 1928	257	6,116,266	78,352	2,658,694	210,396
Indo-China 1925	5	90,000	500	45,000	3,000
Brazil 1928	354	2,584,050	78,383	588,261	128,613
Argentina 1924	7	30,000	1,500	10,000	2,000
Chile 1916	3	5,000	400	—	454
Peru 1928	11	76,796	3,049	12,500	3,100
Colombia 1928	16	39,640	1,927	65,000	3,285
Ecuador 1928	12	38,874	836	12,000	2,542
Venezuela 1928	8	48,800	1,900	29,000	6,000
Guatemala 1925	1	5,000	150	5,984	500
Mexico 1928	160	832,193	30,790	177,785	41,214
Bolivia 1928	1	6,000	200	—	—
Total (estimated)	7,916	174,303,458	3,277,642	26,448,113	3,627,324

Japanese Cotton Industry

[Calendar Years]

Source: Japan Cotton Spinners' Association

YEARS	Number of Companies	Number of Mills	CAPITAL		Reserve Funds (Yen) ¹	NUMBER OF SPINDLES			Twisting Spindles	Looms
			Authorized (Yen) ¹	Paid-up (Yen) ¹		Ring	Mule	Total		
1907	42	118	90,036,300	57,534,125	20,906,234	1,492,032	48,420	1,540,452	154,789	9,462
1908	36	125	85,511,300	58,397,385	22,189,614	1,713,921	51,958	1,765,879	177,860	11,146
1909	31	134	75,871,300	61,501,000	22,781,470	1,903,854	51,638	1,955,492	227,574	13,813
1910	36	136	91,271,300	67,516,013	24,658,967	2,011,284	55,480	2,066,764	282,486	17,702
1911	34	139	89,160,450	61,317,164	21,788,872	2,117,756	53,016	2,170,796	286,410	20,431
1912	41	147	105,136,400	72,366,195	28,538,314	2,425,000	51,718	2,476,718	317,324	21,898
1913	44	152	113,036,401	86,114,059	33,803,119	2,365,094	49,405	2,414,499	320,912	21,224
1914	42	157	109,676,400	85,820,424	36,639,349	2,606,004	51,170	2,657,174	318,766	25,443
1915	41	161	110,176,400	86,014,677	38,663,661	2,754,124	53,390	2,807,514	355,318	30,068
1916	40	161	137,290,150	99,641,818	48,932,384	2,825,944	49,960	2,875,904	370,681	31,295
1917	43	170	162,830,150	115,623,020	70,037,275	3,008,568	51,910	3,060,478	383,458	36,184
1918	43	177	192,877,650	138,494,595	92,426,047	3,175,768	51,910	3,227,678	384,872	40,394
1919	54	190	221,927,650	165,758,695	139,073,869	3,435,932	52,330	3,488,262	410,690	44,401
1920	56	198	394,327,650	276,535,896	165,697,053	3,761,250	52,330	3,813,680	466,460	50,583
1921	61	217	429,577,650	295,648,358	182,040,774	4,116,616	44,510	4,161,126	538,384	54,994
1922	64	235	462,107,650	317,148,075	202,774,376	4,472,112	45,500	4,517,612	602,632	60,765
1923	60	228	463,977,650	323,787,485	211,298,943	4,483,596	44,370	4,497,966	501,034	61,424
1924	56	232	512,362,500	349,820,568	212,871,930	4,815,082	25,450	4,870,232	676,995	61,225
1925	54	230	509,212,500	354,804,817	224,777,742	5,154,962	33,670	5,188,632	715,946	68,160
1926	53	234	497,087,500	369,495,247	229,326,484	5,976,092	34,660	5,410,752	785,002	71,719
1927	54	233	408,305,000	351,809,272	237,575,011	5,734,264	35,320	5,769,584	770,090	71,794
1928 ²	—	—	—	—	—	—	—	—	—	—

² Not available.

¹ Yen = \$0.4985 U. S.

Japanese Yarn Production

[Calendar Years]

Source: Japan Cotton Spinners' Association

YEARS	PRODUCTION OF COTTON YARN										DAILY OPERATIVES (AVERAGE)			WAGES (AVERAGE DAILY)	
	Average Working Spindles	Coarse Yarn (Bales) ¹	Medium Yarn (Bales) ¹	Fine Yarn (Bales) ¹	Doubling (Bales) ¹	Gassed (Bales) ¹	Total (Bales) ¹	Males	Females	Total	Males (Rin) ²	Females (Rin) ²			
1907	1,458,020	859,214.5	53,762.0	-	47,377.5	23,127.5	983,481.5	15,242	64,377	79,619	393	246			
1908	1,367,631	738,659.0	54,171.0	-	59,555.5	26,185.0	878,570.5	15,049	56,154	74,203	410	250			
1909	1,569,080	841,778.0	78,975.0	7.0	71,651.0	32,833.5	1,025,244.5	16,844	66,664	83,508	425	267			
1910	1,741,168	964,675.0	63,637.5	1,814.5	74,436.5	30,217.0	1,134,780.5	18,266	75,614	93,880	434	272			
1911	1,784,064	934,713.0	82,739.5	4,627.5	74,536.0	32,651.0	1,129,267.0	17,628	74,868	92,496	450	288			
1912	1,984,191	1,090,172.5	119,893.5	6,722.5	95,683.5	39,737.5	1,352,209.5	18,421	80,779	99,200	467	305			
1913	2,167,926	1,212,001.5	142,409.0	8,666.5	109,996.0	44,909.0	1,517,982.0	19,707	88,038	107,745	485	320			
1914	2,369,801	1,350,850.5	149,498.0	7,760.5	119,790.0	38,282.0	1,666,181.0	22,163	92,251	114,414	491	319			
1915	2,463,376	1,360,259.0	187,761.0	8,096.5	130,536.5	33,611.5	1,720,264.5	22,674	92,500	115,174	495	322			
1916	2,757,299	1,458,617.0	259,840.0	10,153.5	155,483.5	41,485.0	1,925,579.0	23,845	97,279	121,124	500	334			
1917	2,850,637	1,421,978.0	287,259.5	7,730.5	164,850.0	42,023.0	1,923,841.5	25,518	97,648	123,166	545	371			
1918	2,936,495	1,245,723.5	366,868.5	7,427.5	138,286.5	45,560.0	1,803,866.0	26,790	95,069	121,859	686	476			
1919	3,179,568	1,285,926.0	422,967.5	9,202.0	156,542.5	46,144.5	1,920,782.5	30,935	101,399	131,839	1,116	870			
1920	3,191,753	1,222,525.5	401,868.5	7,477.5	146,562.5	38,542.0	1,816,976.0	33,966	109,782	143,748	1,567	1,196			
1921	3,162,353	1,276,600.5	346,148.5	6,199.5	141,136.0	41,265.5	1,811,350.0	34,904	105,704	140,608	1,463	1,134			
1922	3,967,265	1,557,052.0	429,484.5	7,167.5	185,761.5	48,780.5	2,228,246.0	41,009	132,442	173,451	1,544	1,243			
1923	4,079,855	1,484,705.5	449,274.5	10,175.0	177,472.5	49,525.5	2,171,153.0	38,159	121,811	159,970	1,483	1,180			
1924	4,115,692	1,320,986.5	449,037.5	13,479.0	184,539.0	54,751.0	2,072,817.5	36,015	117,307	153,322	1,524	1,206			
1925	4,669,753	1,541,615.5	587,005.5	16,145.0	229,079.5	62,938.0	2,436,783.5	39,221	134,383	173,604	1,548	1,224			
1926	5,002,932	1,629,698.5	637,499.5	16,164.0	248,847.0	75,537.0	2,607,746.5	40,735	141,787	182,522	-	-			
1927	4,831,429	1,570,910.0	643,325.5	20,618.0	224,903.5	70,935.5	2,530,692.5	38,762	131,384	170,146	-	-			
1928 ³	-	-	-	-	-	-	-	-	-	-	-	-			

¹ Bales of 400 pounds each.² Rin = 1/1000 yen = \$0.00049.³ Not available.

Japanese Cotton Piece-goods Production

[Calendar Years]

Source: Japan Cotton Spinners' Association

YEARS	Average Working Looms	Production of Cotton Piece-goods (Yards)	Yarn Consumed (Pounds)	DAILY OPERATIVES (AVERAGE)			WAGES (AVERAGE DAILY)	
				Male	Female	Total	Male (Rin) ¹	Female (Rin) ¹
1907	9,245	135,253,029	44,262,958	1,525	8,727	10,252	430	277
1908	9,496	147,443,838	47,676,427	1,484	8,683	10,167	448	294
1909	11,585	181,976,972	57,388,586	1,871	11,496	13,367	450	304
1910	14,911	226,313,958	71,197,654	2,486	13,604	16,090	459	305
1911	17,884	289,039,671	82,493,136	2,656	17,133	19,789	471	325
1912	20,208	342,584,684	93,592,721	2,795	18,006	20,801	503	349
1913	23,299	416,725,357	111,159,616	3,298	21,956	25,254	530	363
1914	24,911	454,901,674	123,863,966	3,569	22,459	26,028	555	379
1915	27,687	502,076,621	124,632,631	3,547	22,930	26,477	526	374
1916	30,110	560,181,108	136,413,408	3,737	23,245	26,982	534	407
1917	31,920	594,619,419	142,770,758	4,333	24,434	28,767	583	445
1918	36,395	656,935,420	160,301,569	5,532	29,713	35,245	721	531
1919	40,969	739,390,012	179,788,560	7,635	37,040	44,675	1,133	889
1920	44,635	792,037,360	189,651,320	8,005	39,048	47,053	1,572	1,174
1921	44,109	700,697,985	179,427,501	7,078	32,182	39,260	1,492	1,146
1922	51,033	869,327,652	214,327,505	7,857	38,102	45,959	1,544	1,243
1923	52,972	1,000,708,890	240,279,975	7,902	40,549	48,511	1,483	1,180
1924	56,351	1,030,905,658	241,319,095	8,179	43,056	51,235	1,525	1,174
1925	62,976	1,179,524,733	274,472,668	8,703	47,023	55,726	1,574	1,222
1926	65,699	1,277,726,954	294,334,545	9,216	48,177	57,392	-	-
1927	66,733	1,294,668,822	293,166,913	8,648	41,879	50,527	-	-
1928 ²	-	-	-	-	-	-	-	-

¹ Rin = 1/1000 yen = \$0.00049.

² Not available.

Indian Yarn Production

[In pounds]

Source: Department of Statistics, India

Fiscal Years Ending March 31	Counts 1-12	Counts 13-15	Counts 16-20	Counts 21-22	Counts 23-32	Counts over 32	Total All Counts
1911-12	190,645,627	47,423,898	73,994,852	208,646,131	87,077,316	16,535,131	624,322,955
1912-13	239,721,030	51,689,093	76,859,501	207,838,060	94,751,753	16,901,358	687,760,795
1913-14	233,643,390	49,224,504	78,274,111	211,360,899	95,612,210	14,019,139	682,134,253
1914-15	220,194,466	54,167,997	76,490,272	198,116,252	89,770,944	12,769,510	651,509,441
1915-16	260,337,274	56,961,454	84,882,554	213,351,059	93,935,172	12,305,584	721,773,097
1916-17	219,750,231	57,248,165	85,604,890	200,028,983	100,319,084	17,808,941	680,760,249
1917-18	193,374,553	63,972,185	78,953,407	192,777,637	112,178,003	19,096,551	660,352,336
1918-19	161,285,869	62,346,415	76,268,029	184,250,594	116,623,790	14,034,609	614,809,306
1919-20	174,732,119	55,549,634	82,021,768	205,969,704	104,239,184	12,972,539	635,484,948
1920-21	175,376,300	63,323,383	84,695,402	213,209,760	114,152,207	8,890,653	659,647,765
1921-22	197,376,737	68,290,013	82,730,668	210,635,692	124,443,961	9,493,469	692,970,540
1922-23	191,167,444	70,430,162	83,620,475	227,658,639	123,667,661	9,090,148	705,634,529
1923-24	143,895,315	71,194,892	77,669,761	187,239,780	115,601,798	12,512,473	608,114,019
1924-25	165,030,312	78,205,247	226,574,692	94,828,239	138,667,812	16,088,692	719,389,994
1925-26	160,274,343	75,517,152	208,956,741	89,998,843	134,082,071	15,279,250	684,108,400
1926-27	190,259,317	82,584,545	242,836,793	103,644,305	157,508,417	26,346,664	803,180,041
1927-28	169,430,698	82,628,171	242,738,869	112,238,962	165,749,223	29,963,681	802,749,604

Rayon Industry of United States

Source: United States Bureau of Census

	1925	1927
Number of establishments	14	19
Wage earners (average number) ¹	19,128	26,341
Wages ²	\$22,975,605	\$28,649,441
Cost of materials, factory supplies, containers for products, fuel, and purchased power ³	18,477,965	25,747,792
Materials, supplies, and containers	— ³	22,743,855
Fuel and power	— ³	3,003,937
Products:		
Total value ²	\$8,060,962	109,888,336
Rayon:		
Yarns:		
Pounds	—	75,555,439
Value	—	\$106,468,752
Waste:		
Pounds	51,902,491	2,985,390
Value	\$88,007,873	\$342,749
Allied products (sheets, etc.):		
Pounds	—	2,053,204
Value	—	\$3,076,835
Other products	53,089	—
Production, by process:		
Total, pounds	—	80,594,033
Viscose	No data	70,560,808
Other—nitrocellulose, acetate, and euprammonium	—	10,033,225
Value added by manufacture ⁴	\$69,582,997	\$84,140,544
Horsepower	66,966	122,406

¹ Not including salaried employees.

² The amount of manufacturers' profits cannot be calculated from the census figures for the reason that no data are collected in regard to a number of items of expense, such as interest on investment, rent, depreciation, taxes, insurance, and advertising.

³ Not reported separately.

⁴ Value of products less cost of materials, factory supplies, containers for products, fuel, and purchased power.

United States Production and Imports of Rayon

[Calendar Years]

Source: Silk Association of America

YEAR	Production (Pounds)	Imports (Pounds)	Import Valuation (Per Pound)
1913	1,566,000	2,305,000	—
1914	2,445,000	2,923,000	\$1.25
1915	4,111,000	2,718,000	1.21
1916	4,744,000	864,000	1.95
1917	6,687,000	552,000	2.55
1918	5,828,000	93,099	2.69
1919	8,000,000	1,148,513	4.06
1920	8,000,000	1,846,875	3.44
1921	15,000,000	3,667,180	1.66
1922	24,406,400	2,087,775	1.87
1923	35,380,500	3,906,037	1.73
1924	37,719,600	1,711,987	1.34
1925	52,000,000	7,000,521	1.16
1926	62,816,910	10,221,396	.88
1927	75,000,000	16,211,166	.84
1928	98,600,000	12,742,418	.86

Use of Rayon by Industries

[Calendar Years]

Source: The Viscose Company

	PER CENT				
	1924	1925	1926	1927	1928
Cotton	15	26	21	24	20
Hosiery	23	28	25	21	18
Silk goods	18	16	14	14	13
Underwear	11	13	24	28	33
Other knit goods	14	5	3	4	4
Woolen goods	1	1	1	1	1
Braids, etc.	—	—	1	2	6
Miscellaneous	18	11	11	6	5

List Prices of Rayon Yarn

[Quotations are for 24 filament, 150 denier, A quality, bleached]

Source: The Viscose Company

1909	\$2.15
1910	1.90
1911	1.80
1912	1.80
1913	1.80
April 1, 1914, to September, 1915	2.00
September, 1915, to January, 1916	2.50
January, 1916, to September, 1916	3.00
September, 1916, to December, 1916	3.25
December, 1916, to May, 1917	3.50
May, 1917, to October, 1917	3.75
October, 1917, to June, 1918	4.25
June, 1918, to September, 1919	4.50
September, 1919, to February, 1920	5.25
February, 1920, to June, 1920	5.95
June, 1920, to September, 1920	4.95
September, 1920, to October, 1920	3.95
October, 1920, to September, 1921	2.50
September, 1921, to February, 1924	2.75
February, 1924, to July, 1926	2.00
July, 1926, to November, 1926	1.65
November, 1926, to March, 1927	1.45
March, 1927, to February 25, 1929	1.50
February 25, 1929, to June 18, 1929	1.30
June 18, 1929, to —	1.15

World Rayon Production by Countries

[Calendar Years]

Source: United States Department of Commerce and "Textile World"

COUNTRY	1924 (Pounds)	1925 (Pounds)	1926 (Pounds)	1927 (Pounds)	1928 ¹ (Pounds)
United States . . .	38,750,000	54,700,000	62,575,000	75,050,000	97,700,000
Italy	18,480,000	30,000,000	35,000,000	36,000,000	45,000,000
Great Britain . . .	23,947,000	28,000,000	25,500,000	38,803,000	52,000,000
Germany	23,672,000	27,100,000	26,000,000	31,000,000	43,000,000
France	12,333,200	14,400,000	17,500,000	21,000,000	30,000,000
Belgium	8,874,800	11,100,000	13,100,000	13,500,000	15,000,000
Switzerland	4,004,000	5,500,000	8,000,000	10,340,000	12,000,000
Holland	3,336,000	4,400,000	13,500,000	16,500,000	18,000,000
Austria	2,640,000	3,500,000	3,500,000	3,500,000	4,000,000
Poland	1,540,000	2,200,000	2,000,000	4,000,000	6,500,000
Czechoslovakia . . .	1,293,600	2,000,000	2,800,000	3,500,000	3,000,000
Japan	1,199,000	1,400,000	5,500,000	8,000,000	14,000,000
Hungary	616,000	700,000	— ²	— ²	660,000
Spain	184,800	220,000	300,000	1,000,000	1,500,000
Sweden	176,000	176,000	— ²	— ²	330,000
Canada	—	—	2,250,000	2,600,000	3,750,000
Brazil	—	—	— ²	— ²	800,000
Other Countries . . .	—	—	1,555,000	2,075,000	700,000
Total	—	—	219,080,000	266,868,000	347,940,000

¹ Estimated.

² Included in all others.

Legal Working Hours for Women

Source: United States Department of Labor

STATE	Daily	Weekly
Alabama	No limitation	No limitation
Arizona	8	48
Arkansas	9	54
California	8	48
Colorado	8	56
Connecticut	10	55
Delaware	10	55
District of Columbia	8	48
Florida	No limitation	No limitation
Georgia	10	60
Idaho	9	63
Illinois	10	70
Indiana	No limitation	No limitation
Iowa	No limitation	No limitation
Kansas	9	49½
Kentucky	10	60
Louisiana	10	60
Maine	9	54
Maryland	10	60
Massachusetts	9	48
Michigan	10	54
Minnesota	9½	54
Mississippi	10	55
Missouri	9	54
Montana	8	56
Nebraska	9	54
Nevada	8	56
New Hampshire	10½	54
New Jersey	10	54
New Mexico	8	56
New York¹	8	48
North Carolina	11	60
North Dakota	8½	48
Ohio	9	50
Oklahoma	9	54
Oregon	9	48
Pennsylvania	10	54
Rhode Island	10	54
South Carolina	10	55
South Dakota	10	54
Tennessee	10½	57
Texas	9	54
Utah	8	48
Vermont	10½	56
Virginia	10	60
Washington	8	56
West Virginia	No limitation	No limitation
Wisconsin	9	50
Wyoming	8½	56

NOTE.—The above table applies to women employed in mechanical and manufacturing establishments. Many states provide for overtime in seasonal industries.

¹ Certain exceptions on hours of labor.

Growth of the Cotton Manufacturing Industry of the United States

	1904	1909	1914	1919	1921	1923	1925	1927
Invested capital	\$613,110,655	\$822,237,529	\$899,764,982	\$1,914,919,506	Not collected	Not collected	Not collected	Not collected
Number of active producing spindles .	23,155,613	27,395,800	30,815,731	33,718,953	36,047,367 ¹	36,260,001 ¹	35,032,246	34,409,910
Number of concerns	1,154	1,324	1,328	1,496	1,527	1,642	1,638	1,610
Number of employees	315,874	378,880	393,404	446,852	425,817	495,197	468,352	489,036
Value of product calendar year . . .	\$450,467,704	\$628,391,813	\$701,300,933	\$2,195,565,881	\$1,330,263,117	\$2,010,141,147	\$1,819,886,390	\$1,659,518,736
Consumption of raw cotton and lintors (in 500-pound bales). (Cotton year.)	4,523,208	4,759,364	6,087,338	6,807,817	5,408,979	7,312,291	6,832,265	7,995,668
Value of total exports of cotton manu- factures. ²	\$22,403,713	\$31,878,566	\$51,467,233	\$273,115,704	\$117,234,542	\$138,045,354	\$148,239,365	\$133,186,101
Value of total imports of cotton manu- factures. ²	49,524,246	63,231,968	70,704,828	52,652,110	75,430,495	100,153,179	79,271,008	66,197,850

¹ Total active cotton-producing spindles whether in cotton manufacturing industry or not.² Fiscal years ended June 30 up to and including 1914; calendar years thereafter.

Summary of the Cotton Manufacturing Industry for New England, 1927

[Calendar Year]

Source: United States Bureau of the Census, Department of Commerce

	Maine	New Hampshire ¹	Vermont	Massachusetts	Rhode Island	Connecticut	Total
Number of establishments	17	22	4	210	126	59	438
Persons engaged	10,410	15,508	1,031	96,088	32,652	16,795	172,484
Proprietors and firm members	—	8	—	32	35	3	78
Salaried employees	215	526	23	2,643	1,377	961	5,745
Wage earners (average number)	10,195	14,974	1,008	93,413	31,240	15,831	166,661
Salaries and wages	\$10,512,808	\$16,829,673	\$1,120,351	\$99,040,702	\$36,880,021	\$19,085,292	\$183,468,907
Salaries	731,738	1,446,457	65,724	8,466,477	4,214,977	2,445,800	17,371,173
Wages	9,781,130	15,383,216	1,054,627	90,574,225	32,665,044	16,639,492	166,097,734
Paid for contract work	247,745	1,294,127	—	2,450,370	643,813	646,558	5,282,613
Cost of materials, fuel, and power	17,350,564	27,187,700	1,361,130	150,813,954	55,335,456	32,665,935	284,714,739
Value of product	34,414,143	58,709,428	3,145,790	294,890,690	109,578,061	64,112,866	564,850,978
Value added by manufacture ²	17,063,579	31,521,728	1,784,660	144,076,736	54,242,605	31,446,931	280,136,239

¹ Excludes statistics for one establishment to avoid disclosure of its operations.² Value of products less cost of materials, fuel, and power.

Statistical History of the American Cotton Industry

	YEAR	Number of Estab- lishments	Value of Products (Thousands)	Employees	ACTIVE SPINDLES (THOUSANDS)		Looms	Imports of Cotton Manu- factures (Thousands)
					Northern States	United States		
1	1790 .	-	-	-	-	-	-	-
2	1800 .	-	-	-	-	-	-	-
3	1810 .	-	-	-	-	-	-	-
4	1820 .	-	-	-	-	-	-	-
5	1830 .	-	-	-	-	-	-	\$7,865
6	1840 .	1,240	\$46,350	72,119	2,104	2,285	-	6,504
7	1850 .	1,094	61,869	92,286	3,733	3,998	-	20,781
8	1860 .	1,091	115,682	122,028	4,912	5,236	126,313	33,216
9	1870 .	956	177,490	135,369	6,804	7,132	157,310	23,380
10	1871 .	-	-	-	-	-	-	-
11	1872 .	-	-	-	-	-	-	-
12	1873 .	-	-	-	-	-	-	-
13	1874 .	-	-	-	-	-	-	-
14	1875 .	-	-	-	-	-	-	-
15	1876 .	-	-	-	-	-	-	-
16	1877 .	-	-	-	-	-	-	-
17	1878 .	-	-	-	-	-	-	-
18	1879 .	756	192,090	174,659	-	-	-	-
19	1880 .	-	-	-	10,092	10,653	225,759	-
20	1881 .	-	-	-	-	-	-	-
21	1882 .	-	-	-	-	-	-	34,351
22	1883 .	-	-	-	11,800	12,660	-	36,854
23	1884 .	-	-	-	12,250	13,300	-	29,075
24	1885 .	-	-	-	12,250	13,375	-	27,197
25	1886 .	-	-	-	12,250	13,400	-	29,709
26	1887 .	-	-	-	12,300	13,500	-	28,940
27	1888 .	-	-	-	12,300	13,550	-	28,918
28	1889 .	905	267,982	218,876	12,700	14,060	-	26,806
29	1890 .	-	-	-	12,814	14,384	324,866	29,918
30	1891 .	-	-	-	12,900	14,640	-	29,713
31	1892 .	-	-	-	13,250	15,200	-	28,324
32	1893 .	-	-	-	13,450	15,550	-	33,638
33	1894 .	-	-	-	13,500	15,700	-	22,440
34	1895 .	-	-	-	13,700	16,100	-	33,297
35	1896 .	-	-	-	13,800	16,650	-	32,643
36	1897 .	-	-	-	13,900	17,150	-	34,601
37	1898 .	-	-	-	13,900	17,450	-	27,420
38	1899 .	1,055	339,200	302,861	14,150	18,100	-	32,265

Statistical History of the American Cotton Industry — (Continued)

Exports of Cotton Manu- factures (Thousands)	Crop (Bales) (Thousands)	CONSUMPTION BY MILLS (BALES) (THOUSANDS)		Acreage Picked (Thousands)	Yield per Acre (Pounds)	Upland, Average Price Paid to Farmer	Standard Sheeting, Average Price	
		Northern States	United States					
—	3	—	—	—	—	26.0	—	1
—	73	—	—	—	—	44.0	—	2
—	178	—	—	—	—	15.5	—	3
—	335	—	—	—	—	14.3	—	4
\$1,318	732	—	—	—	—	9.7	—	5
3,550	1,348	166	237	—	—	9.5	—	6
4,734	2,136	497	575	—	—	12.1	7.87	7
10,935	3,841	751	845	—	—	13.0	8.75	8
3,787	4,025	728	797	8,885	199	17.0	14.58	9
—	2,757	1,072	1,163	7,558	148	16.2	13.00	10
—	3,651	977	1,097	8,483	189	21.4	14.27	11
—	3,874	1,063	1,201	9,510	180	19.1	13.31	12
—	3,528	1,192	1,320	11,764	148	16.2	11.42	13
—	4,303	1,071	1,201	11,934	191	15.0	10.41	14
—	4,118	1,220	1,354	11,677	168	12.1	8.85	15
—	4,494	1,302	1,429	12,133	164	11.3	8.46	16
—	4,745	1,345	1,496	12,344	191	10.8	7.80	17
—	5,466	1,379	1,561	14,480	181	10.4	7.97	18
—	6,357	1,382	1,570	15,951	185	11.8	8.51	19
—	5,136	1,713	1,938	16,711	150	10.8	8.51	20
13,223	6,833	1,677	1,964	16,277	186	11.8	8.45	21
12,951	5,522	1,759	2,072	16,778	165	10.1	8.32	22
11,885	5,477	1,537	1,877	17,440	154	11.0	7.28	23
11,837	6,369	1,437	1,753	18,301	164	10.7	6.75	24
13,960	6,315	1,781	2,162	18,455	170	9.4	6.75	25
14,929	6,885	1,687	2,088	18,641	183	10.0	7.15	26
13,013	6,924	1,805	2,261	19,059	180	10.3	7.25	27
10,213	7,473	1,790	2,270	20,175	160	10.4	7.00	28
9,999	8,562	1,979	2,518	19,512	187	11.3	7.00	29
13,605	8,941	2,027	2,640	19,059	179	9.9	6.83	30
13,226	6,658	2,172	2,856	15,911	209	7.8	6.50	31
11,809	7,433	1,652	2,375	19,525	150	8.4	5.90	32
14,341	10,026	1,580	2,291	23,688	195	7.7	5.11	33
13,790	7,147	2,019	2,871	20,185	156	6.2	5.74	34
16,837	8,516	1,605	2,505	23,273	185	8.1	5.45	35
21,038	10,985	1,793	2,792	24,320	183	7.7	4.73	36
17,024	11,435	2,211	3,465	24,967	221	6.3	4.20	37
23,567	9,460	2,217	3,632	24,327	184	6.1	5.28	38

Statistical History of the American Cotton Industry — (Continued)

	YEAR	Number of Estab- lishments	Value of Products (Thousands)	Employees	ACTIVE SPINDLES (THOUSANDS)		Looms	Imports of Cotton Manu- factures (Thousands)
					Northern States	United States		
1	1900 .	—	—	—	15,104	19,472	455,752	\$41,541
2	1901 .	—	—	—	14,700	20,200	—	40,436
3	1902 .	—	—	—	15,000	21,400	—	44,956
4	1903 .	—	—	—	15,100	22,000	—	53,269
5	1904 .	1,154	\$450,468	315,874	15,200	22,850	540,910	50,370
6	1905 .	—	—	—	16,056	23,687	—	50,162
7	1906 .	—	—	—	16,255	25,250	—	64,399
8	1907 .	—	—	—	16,847	26,375	—	74,747
9	1908 .	—	—	—	17,304	27,505	—	68,825
10	1909 .	1,324	628,392	378,880	17,589	28,018	632,963	63,232
11	1910 .	—	—	—	17,773	28,267	—	68,053
12	1911 .	—	—	—	18,438	29,523	—	66,997
13	1912 .	—	—	—	18,996	30,579	—	65,153
14	1913 .	—	—	—	19,293	31,520	—	66,066
15	1914 .	1,328	701,301	393,404	19,396	32,107	672,754	70,705
16	1915 .	—	—	—	19,008	31,964	—	46,205
17	1916 .	—	—	—	19,424	32,806	—	53,751
18	1917 .	—	—	—	19,733	33,889	—	53,825
19	1918 .	—	—	—	20,014	34,543	—	40,701
20	1919 .	1,496	2,195,566	446,852	20,085	34,931	692,169	52,652
21	1920 .	—	—	—	20,250	35,481	—	137,583
22	1921 .	1,527	1,330,263	425,817	20,338	36,047	—	75,430
23	1922 .	—	—	—	19,802	35,708	—	87,070
24	1923 .	1,643	2,010,141	495,197	19,950	36,260	—	100,153
25	1924 .	—	—	—	18,905	35,849	—	90,914
26	1925 .	1,638	1,819,886	468,352	17,740	35,032	—	79,271
27	1926 .	—	—	—	17,176	34,750	—	67,159
28	1927 .	1,610	1,659,519	489,036	16,516	34,410	715,046	66,197
29	1928 .	—	—	—	15,288	33,570	—	69,294

The figures in this table are not all precisely comparable throughout the entire period shown but are presented to show in a general way the changes which have taken place in the industry. The data are from various sources, largely official.

Statistical History of the American Cotton Industry —
(Concluded)

Exports of Cotton Manu- factures (Thousands)	Crop (500-lb. Bales, in- cluding linters) (Thousands)	CONSUMPTION BY MILLS (BALES) (THOUSANDS)		Acreage Picked (Thousands)	Yield per Acre (Pounds)	Upland, Average Price Paid to Farmer	Standard Sheeting, Average Price	
		Northern States	United States					
\$24,003	10,267	2,350	3,873	24,933	194	9.1	6.05	1
20,272	9,776	1,964	3,547	26,774	170	8.1	5.54	2
32,108	10,827	2,066	4,083	27,175	187	8.2	5.48	3
32,216	10,046	1,966	3,924	27,052	174	12.2	6.25	4
22,404	13,680	2,046	3,935	31,215	206	8.7	7.13	5
49,666	10,805	2,139	4,279	27,110	187	10.9	7.00	6
52,944	13,595	2,536	4,909	31,374	203	10.0	7.25	7
32,305	11,375	2,574	4,985	29,660	179	11.5	7.62	8
25,178	13,587	2,352	4,539	32,444	195	9.2	6.75	9
31,879	10,315	2,687	5,241	30,938	154	14.3	7.37	10
33,397	12,006	2,388	4,622	32,403	171	14.0	7.87	11
40,852	16,250	2,249	4,498	36,045	208	9.6	7.98	12
50,770	14,313	2,493	5,129	34,283	191	11.5	7.79	13
51,510	14,795	2,621	5,483	37,089	182	12.5	8.05	14
49,246	16,992	2,652	5,577	36,832	209	7.3	7.68	15
70,247	12,123	2,570	5,597	31,412	170	11.2	6.74	16
127,052	12,781	2,870	6,398	34,985	157	17.3	9.18	17
157,267	12,428	2,900	6,789	33,841	160	27.1	14.50	18
179,106	12,970	2,869	6,566	36,008	160	28.8	23.38	19
270,235	12,029	2,567	5,766	33,566	162	35.4	22.60	20
398,458	13,880	2,837	6,420	35,878	178	15.8	23.08	21
115,539	8,351	1,895	4,893	30,509	125	16.9	12.80	22
136,778	10,370	2,180	5,910	33,036	141	22.9	13.63	23
136,300	10,808	2,418	6,666	37,123	131	28.7	16.50	24
130,808	14,525	1,822	5,681	41,360	157	22.9	14.47	25
146,272	17,218	1,973	6,193	46,053	167	19.6	13.20	26
128,877	19,135	1,955	6,456	47,087	182	12.5	11.16	27
133,186	13,972	1,996	7,190	40,138	154	20.2	10.95	28
134,651	14,478 ¹	1,720	6,834	45,341	153	—	10.68	29

¹ Exclusive of linters.

Approximate Value of Foreign Money

Source: The Merchants National Bank of Boston

COUNTRY	Monetary Unit and Fraction		Approximate Par Value of Foreign Unit in United States Dollars	Approximate Value of United States Dollar in Foreign Unit at Par
Argentina . . .	{ 1 Gold peso	= 100 Centavos	\$0.9648	1.0364 Gold pesos
	{ 1 Paper peso	= 100 Centavos	.4245	2.3557 Paper pesos
Austria . . .	1 Schilling	= 100 Groschen	.1407	7.1073 Schillings
Belgium . . .	1 Belga	= 100 Centimes	.1390	7.1942 Belgas
Bolivia . . .	1 Boliviano	= 100 Centavos	.3893	2.5687 Bolivianos
Brazil . . .	1 Milreis	= 1,000 Reis	.3244	3.0826 Milreis
Bulgaria . . .	1 Lev	= 100 Stotinki	.1930	5.1813 Leva
Canada . . .	1 Dollar	= 100 Cents	1.0000	1.0000 Dollar
Chile . . .	1 Peso	= 100 Centavos	.1217	8.2169 Pesos
China . . .	—	—	—	—
Colombia . . .	1 Peso	= 100 Centavos	.9733	1.0274 Pesos
Cuba . . .	1 Peso	= 100 Centavos	1.0000	1.0000 Pesos
Czechoslovakia . . .	1 Crown	= 100 Hellers	—	— Crowns
Denmark . . .	1 Krone	= 100 Ore	.2680	3.7313 Kroner
Ecuador . . .	1 Sucre	= 100 Centavos	.2000	5.0000 Sucres
Egypt . . .	1 Egyptian pound	= 100 Piastres	4.9431	2.0230 Egyptian pounds
Finland . . .	1 Markka	= 100 Pennia	.0252	39.6825 Markka
France . . .	1 Franc	= 100 Centimes	.0392	25.5102 Francs
Germany . . .	1 Reichsmark	= 100 Pfennigs	.2382	4.1982 Reichsmarks
Greece . . .	1 Drachma	= 100 Lepta	.0130	76.9231 Drachmas
Great Britain . . .	{ 1 Pound sterling	= 20 Shillings	4.8665	0-4-11 Pounds sterling
	{ 1 Shilling	= 12 Pence	.2433	4.1102 Shillings
Hungary . . .	1 Pengo	= 100 Garas	.1749	5.7176 Pengos
India . . .	1 Rupee	= 16 Annas	.3650	2.7397 Rupees
Italy . . .	1 Lira	= 100 Centesimi	.0526	19.0114 Lire
Japan . . .	1 Yen	= 100 Sen	.4985	2.0062 Yen
Jugo-Slavia . . .	1 Dinar	= 100 Paras	.1930	5.1813 Dinars
Mexico . . .	1 Peso	= 100 Centavos	.4985	2.0062 Pesos
Netherlands . . .	1 Florin or guilder	= 100 Cents	.4020	2.4876 Guilders
Norway . . .	1 Krone	= 100 Ore	.2680	3.7313 Kroner
Peru . . .	{ 1 Libra	= 100 Soles	4.8665	2.0549 Libras
	{ 1 Sol	= 100 Centavos	.4867	2.0549 Soles
Poland . . .	1 Zloty	= 100 Grozy	.1122	8.9127 Zlotys
Portugal . . .	1 Escudo	= 100 Centavos	1.0805	.9254 Escudos
Rumania . . .	1 Leu	= 100 Bani	.1930	5.1813 Lei
Russia . . .	1 Chervonetz	= 10 Roubles	5.1460	1.1943 Chervontsi
Spain . . .	1 Peseta	= 100 Centimos	.1930	5.1813 Pesetas
Sweden . . .	1 Krona	= 100 Ore	.2680	3.7313 Kronor
Switzerland . . .	1 Franc	= 100 Centimes	.1930	5.1813 Francs
Turkey . . .	{ 1 Turkish pound	= 100 Piastres	4.3965	2.275 Turkish pounds
	{ 1 Piastre	= 40 Paras	.0439	22.7454 Piastres
Uruguay . . .	1 Peso	= 100 Centesimos	1.0342	.9671 Pesos
Venezuela . . .	1 Bolivar	= 100 Centimos	.1930	5.1813 Bolivares

¹ There is no uniform currency in China, the Mexican silver dollar being mostly used. The British dollar, termed Hongkong currency, has the same legal value as the Mexican dollar in Hongkong and the Straits Settlements, and usually prevails at about 50 cents United States gold.

NOTE. — Foreign money values are all subject to fluctuations.

TECHNICAL

FOREWORD

The Technical Committee has initiated work which is expected to lead to the formulation of standard methods for specifying humidifying equipment for cotton mills.

The need for such methods arises through the fact that the manufacturers of such equipment have no common idea as to the specification and definition of suitable capacity. Under these conditions it often occurs that the textile manufacturer is unable to reduce to a basis for comparison the various contracts submitted by those bidding on equipment. There is also no generally recognized means for testing such installations to determine if the contracts have been met.

The Committee hopes ultimately to be able to devise suitable testing procedure. Owing to the immense amount of money invested in humidification, the absence of the methods defined above has resulted in much confusion, and, in cases, in considerable losses.

It is expected that a specification form can be reported on within the next few months.

Following the practice established and directed by the Secretary of The National Association of Cotton Manufacturers, a collection of useful engineering and other data tables are included in this report.

R. G. KNOWLAND, *Chairman*
Technical Committee

INTRODUCTION

The Technical Section of the Year Book presents in condensed form many of the standard tables on production that we believe will be of use to the cotton manufacturer. In addition there are tables giving the constructions of many of the standard cloths reported by the Cotton-Textile Institute, Inc., and the Association of Cotton Textile Merchants of New York; Standard Test Methods for Testing Textile Materials in use by the Federal Specifications Board; Yarn Test Methods approved by the American Society for Testing Materials; data on the conversion of yarn numbers from one system to another; methods of identification of rayon; breaking strength tables for yarn and other miscellaneous information.

Acknowledgment has been made in most cases where the data are used. In addition we are indebted to Prof. George B. Haven, Gilbert R. Merrill, The Cotton Research Company, Textile World, Saco-Lowell Shops, Whitin Machine Works, Draper Corporation, H. & B. American Machine Company, U. S. Testing Company, The Silk Association of America, Fales & Jenks Machine Company, and the American Society for Testing Materials, for their courtesy in giving permission to republish certain of their tables.

Weight Equivalents

Corrected to second decimal place

1 ounce = 437.5 grains = 28.35 grams	9 ounces = 3937.5 grains = 255.14 grams
1½ ounces = 656.25 grains = 42.52 grams	9½ ounces = 4156.25 grains = 269.32 grams
2 ounces = 875.0 grains = 56.70 grams	10 ounces = 4375.0 grains = 283.50 grams
2½ ounces = 1093.75 grains = 70.87 grams	10½ ounces = 4593.75 grains = 297.67 grams
3 ounces = 1312.5 grains = 85.05 grams	11 ounces = 4812.5 grains = 311.84 grams
3½ ounces = 1531.25 grains = 99.22 grams	11½ ounces = 5031.25 grains = 326.02 grams
4 ounces = 1750.0 grains = 113.40 grams	12 ounces = 5250.0 grains = 340.19 grams
4½ ounces = 1968.75 grains = 127.57 grams	12½ ounces = 5468.75 grains = 354.37 grams
5 ounces = 2187.5 grains = 141.75 grams	13 ounces = 5687.5 grains = 368.54 grams
5½ ounces = 2406.25 grains = 155.92 grams	13½ ounces = 5906.25 grains = 382.71 grams
6 ounces = 2625.0 grains = 170.10 grams	14 ounces = 6125.0 grains = 396.89 grams
6½ ounces = 2843.75 grains = 184.27 grams	14½ ounces = 6343.75 grains = 411.06 grams
7 ounces = 3062.5 grains = 198.44 grams	15 ounces = 6562.5 grains = 425.24 grams
7½ ounces = 3281.25 grains = 212.62 grams	15½ ounces = 6781.25 grains = 439.41 grams
8 ounces = 3500.0 grains = 226.79 grams	16 ounces = 7000.0 grains = 453.59 grams
8½ ounces = 3718.75 grains = 240.97 grams	

Reference DataMillimeters $\times .03937$ = inches or millimeters $\div 25.4$ = inches.Centimeters $\times .3937$ = inches or centimeters $\div 2.54$ = inches.Meters $\times 39.37$ = inches or meters $\times 3.281$ = feet.Kilometers $\times .621$ = miles.Square centimeters $\times .155$ = square inches or square meters $\times 10.764$ = square feet.Cubic meters $\times 35.315$ = cubic feet or cubic meters $\times 1.308$ = cubic yards.Liters $\times .2642$ = gallons (231 cubic inches).Grams $\times 15.432$ = grains or grams $\div 28.35$ = ounces avoirdupois.Kilograms $\times 2.2046$ = pounds or kilograms $\div 907.2$ = tons (2,000 pounds).Kilowatts $\times 1.34$ = horse power or watts $\div 746$ = horse power.Calorie $\times 3.968$ = British Thermal Unit.

1 Pint of water weighs 1.045 pounds.

1 Gallon of water = .1339 cubic feet = 8.36 pounds of water at 62° F.

1 Mile = 5,280 feet.

1 Pound (avoirdupois) = 7,000 grains = 453.6 grams.

1 Horse Power = 33,000 foot pounds of work done per minute = 746 watts.

The pressure of one atmosphere = 14.7 pounds per square inch, = 2,116 pounds per square foot, = a column of mercury 760 millimeters high.

A column of water 2.3 feet high corresponds to a pressure of 1 pound per square inch.

Conversion of Thermometer Readings

F°	C°	F°	C°	F°	C°	F°	C°	F°	C°	F°	C°
-40	-40.00	30	-1.11	80	26.67	250	121.11	500	260.00	900	482.22
-38	-38.89	31	-0.56	81	27.22	255	123.89	505	262.78	910	487.78
-36	-37.78	32	0.00	82	27.78	260	126.67	510	265.56	920	493.33
-34	-36.67	33	0.56	83	28.33	265	129.44	515	268.33	930	498.89
-32	-35.56	34	1.11	84	28.89	270	132.22	520	271.11	940	504.44
-30	-34.44	35	1.67	85	29.44	275	135.00	525	273.89	950	510.00
-28	-33.33	36	2.22	86	30.00	280	137.78	530	276.67	960	515.56
-26	-32.22	37	2.78	87	30.56	285	140.55	535	279.44	970	521.11
-24	-31.11	38	3.33	88	31.11	290	143.33	540	282.22	980	526.67
-22	-30.00	39	3.89	89	31.67	295	146.11	545	285.00	990	532.22
-20	-28.89	40	4.44	90	32.22	300	148.89	550	287.78	1000	537.78
-18	-27.78	41	5.00	91	32.78	305	151.67	555	290.55	1050	565.56
-16	-26.67	42	5.56	92	33.33	310	154.44	560	293.33	1100	593.33
-14	-25.56	43	6.11	93	33.89	315	157.22	565	296.11	1150	621.11
-12	-24.44	44	6.67	94	39.44	320	160.00	570	298.89	1200	648.89
-10	-23.33	45	7.22	95	35.00	325	162.78	575	301.67	1250	676.67
-8	-22.22	46	7.78	96	35.56	330	165.56	580	304.44	1300	704.44
-6	-21.11	47	8.33	97	36.11	335	168.33	585	307.22	1350	732.22
-4	-20.00	48	8.89	98	36.67	340	171.11	590	310.00	1400	760.00
-2	-18.89	49	9.44	99	37.22	345	173.89	595	312.78	1450	787.78
0	-17.78	50	10.00	100	37.78	350	176.67	600	315.56	1500	815.56
1	-17.22	51	10.56	105	40.55	355	179.44	610	321.11	1550	843.33
2	-16.67	52	11.11	110	43.33	360	182.22	620	326.67	1600	871.11
3	-16.11	53	11.67	115	46.11	365	185.00	630	332.22	1650	898.89
4	-15.56	54	12.22	120	48.89	370	187.78	640	337.78	1700	926.67
5	-15.00	55	12.78	125	51.67	375	190.55	650	343.33	1750	954.44
6	-14.44	56	13.33	130	54.44	380	193.33	660	348.89	1800	982.22
7	-13.89	57	13.89	135	57.22	385	196.11	670	354.44	1850	1010.00
8	-13.33	58	14.44	140	60.00	390	198.89	680	360.00	1900	1037.78
9	-12.78	59	15.00	145	62.78	395	201.67	690	365.56	1950	1065.56
10	-12.22	60	15.56	150	65.56	400	204.44	700	371.11	2000	1093.33
11	-11.67	61	16.11	155	68.33	405	207.22	710	376.67	2050	1121.11
12	-11.11	62	16.67	160	71.11	410	210.00	720	382.22	2100	1148.89
13	-10.56	63	17.22	165	73.89	415	212.78	730	387.78	2150	1176.67
14	-10.00	64	17.78	170	76.67	420	215.56	740	393.33	2200	1204.44
15	-9.44	65	18.33	175	79.44	425	218.33	750	398.89	2250	1232.22
16	-8.89	66	18.89	180	82.22	430	221.11	760	404.44	2300	1260.00
17	-8.33	67	19.44	185	85.00	435	223.89	770	410.00	2350	1287.78
18	-7.78	68	20.00	190	87.78	440	226.67	780	415.56	2400	1315.56
19	-7.22	69	20.56	195	90.55	445	229.44	790	421.11	2450	1343.33
20	-6.67	70	21.11	200	93.33	450	232.22	800	426.67	2500	1371.11
21	-6.11	71	21.67	205	96.11	455	235.00	810	432.22	2550	1398.89
22	-5.56	72	22.22	212	100.00	460	237.78	820	437.78	2600	1426.67
23	-5.00	73	22.78	215	101.67	465	240.55	830	443.33	2650	1454.44
24	-4.44	74	23.33	220	104.44	470	243.33	840	448.89	2700	1482.22
25	-3.89	75	23.89	225	107.22	475	246.11	850	454.44	2750	1510.00
26	-3.33	76	24.44	230	110.00	480	248.89	860	460.00	2800	1537.78
27	-2.78	77	25.00	235	112.78	485	251.67	870	465.56	2850	1565.56
28	-2.22	78	25.56	240	115.56	490	254.44	880	471.11	2900	1593.33
29	-1.67	79	26.11	245	118.33	495	257.22	890	476.67	2950	1621.11

Specific Gravity, Degrees Twaddle and Degrees Beaumé

English Standard 15°C.

Twaddle	Beaumé	Specific Gravity	Twaddle	Beaumé	Specific Gravity	Twaddle	Beaumé	Specific Gravity	Twaddle	Beaumé	Specific Gravity
0	0	1.000	44	26.0	1.220	88	44.1	1.440	132	57.4	1.660
1	0.7	1.005	45	26.4	1.225	89	44.4	1.445	133	57.7	1.665
2	1.4	1.010	46	26.9	1.230	90	44.8	1.450	134	57.9	1.670
3	2.1	1.015	47	27.4	1.235	91	45.1	1.455	135	58.2	1.675
4	2.7	1.020	48	27.9	1.240	92	45.4	1.460	136	58.4	1.680
5	3.4	1.025	49	28.4	1.245	93	45.8	1.465	137	58.7	1.685
6	4.1	1.030	50	28.8	1.250	94	46.1	1.470	138	58.9	1.690
7	4.7	1.035	51	29.3	1.255	95	46.4	1.475	139	59.2	1.695
8	5.4	1.040	52	29.7	1.260	96	46.8	1.480	140	59.5	1.700
9	6.0	1.045	53	30.2	1.265	97	47.1	1.485	141	59.7	1.705
10	6.7	1.050	54	30.6	1.270	98	47.4	1.490	142	60.0	1.710
11	7.4	1.055	55	31.1	1.275	99	47.8	1.495	143	60.2	1.715
12	8.0	1.060	56	31.5	1.280	100	48.1	1.500	144	60.4	1.720
13	8.7	1.065	57	32.0	1.285	101	48.4	1.505	145	60.6	1.725
14	9.4	1.070	58	32.4	1.290	102	48.7	1.510	146	60.9	1.730
15	10.0	1.075	59	32.8	1.295	103	49.0	1.515	147	61.1	1.735
16	10.6	1.080	60	33.3	1.300	104	49.4	1.520	148	61.4	1.740
17	11.2	1.085	61	33.7	1.305	105	49.7	1.525	149	61.6	1.745
18	11.9	1.090	62	34.2	1.310	106	50.0	1.530	150	61.8	1.750
19	12.4	1.095	63	34.6	1.315	107	50.3	1.535	151	62.1	1.755
20	13.0	1.100	64	35.0	1.320	108	50.6	1.540	152	62.3	1.760
21	13.6	1.105	65	35.4	1.325	109	50.9	1.545	153	62.5	1.765
22	14.2	1.110	66	35.8	1.330	110	51.2	1.550	154	62.8	1.770
23	14.9	1.115	67	36.2	1.335	111	51.5	1.555	155	63.0	1.775
24	15.4	1.120	68	36.6	1.340	112	51.8	1.560	156	63.2	1.780
25	16.0	1.125	69	37.0	1.345	113	52.1	1.565	157	63.5	1.785
26	16.5	1.130	70	37.4	1.350	114	52.4	1.570	158	63.7	1.790
27	17.1	1.135	71	37.8	1.355	115	52.7	1.575	159	64.0	1.795
28	17.7	1.140	72	38.2	1.360	116	53.0	1.580	160	64.2	1.800
29	18.3	1.145	73	38.6	1.365	117	53.3	1.585	161	64.4	1.805
30	18.8	1.150	74	39.0	1.370	118	53.6	1.590	162	64.6	1.810
31	19.3	1.155	75	39.4	1.375	119	53.9	1.595	163	64.8	1.815
32	19.8	1.160	76	39.8	1.380	120	54.1	1.600	164	65.0	1.820
33	20.3	1.165	77	40.1	1.385	121	54.4	1.605	165	65.2	1.825
34	20.9	1.170	78	40.5	1.390	122	54.7	1.610	166	65.5	1.830
35	21.4	1.175	79	40.8	1.395	123	55.0	1.615	167	65.7	1.835
36	22.0	1.180	80	41.2	1.400	124	55.2	1.620	168	65.9	1.840
37	22.5	1.185	81	41.6	1.405	125	55.5	1.625	169	66.1	1.845
38	23.0	1.190	82	42.0	1.410	126	55.8	1.630	170	66.3	1.850
39	23.5	1.195	83	42.3	1.415	127	56.0	1.635	171	66.5	1.855
40	24.0	1.200	84	42.7	1.420	128	56.3	1.640	172	66.7	1.860
41	24.5	1.205	85	43.1	1.425	129	56.6	1.645	173	67.0	1.865
42	25.0	1.210	86	43.4	1.430	130	56.9	1.650			
43	25.5	1.215	87	43.8	1.435	131	57.1	1.655			

Approximate Power required for Cotton Machinery

	Horse Power
Bale Breaker	3-5
Self-Feeding Openers	3
Combined Self-Feeding Opener and Single Beater Breaker Lap- per	9
40" Single Beater Intermediate or Finisher Lapper	5
Two-Beater Intermediate or Finisher Lapper	10-12
Waste Picker	3
Thread Extractor with Condenser	2
40" Revolving Flat Card, Production 750 lbs. per week	1
Sliver Lap Machine	$\frac{1}{2}$
Ribbon Lap Machine	1
Comber 6-head	$\frac{1}{2}$
Comber 8-head	$\frac{2}{3}$
Drawing Frames 4 to 5 deliveries per	1
Slubber Frames 40 to 45 spindles per	1
Intermediate Frames 55 to 60 spindles per	1
Roving Frames 70 to 85 spindles per	1
Jack or Fine Roving Frames 100 spindles per	1
Ring Spinning Frames:	
6,000 r. p. m. (Filling) 110 spindles per	1
7,000 r. p. m. (Filling) 100 spindles per	1
8,000 r. p. m. (Warp) 90 spindles per	1
8,500 r. p. m. (Warp) 80 spindles per	1
9,000 r. p. m. (Warp) 70 spindles per	1
10,000 r. p. m. (Warp) 60 spindles per	1
Mule, 720 spindles per	$7\frac{1}{2}$
Twisters 10 to 50 spindles per	1
Cone Winders 65 drums per	1
Spoolers 200 to 300 spindles per	1
Warpers	$\frac{1}{4}$ - $\frac{1}{2}$
Ball Warpers	$\frac{1}{2}$
Slasher	2
Looms:	
32" and 36"	$\frac{1}{4}$
40" and 48"	$\frac{1}{3}$
80"	$\frac{1}{2}$
92" to 108"	$\frac{3}{4}$ -1
Brusher	1
Brusher and Shearer	3
Cloth Folder	$\frac{1}{3}$ - $\frac{1}{2}$

NOTE. — The above figures are only approximate, but they give a fair average of the power required to drive the various machines. The speed production and many other conditions affect the power consumed. For Friction of Belting and Shafting add from 18 to 22 per cent.

Card Settings

The following settings give the usual range for carding. Individual mill conditions must govern the actual setting.

	Inches
Feed plate from lickerin	7/1000-17/1000
Mote knives from lickerin	17/1000-22/1000
Lickerin from cylinder	7/1000-10/1000
Lickerin screen from lickerin	29/1000- 1/8
Cylinder screen from cylinder:	
Lickerin end	17/1000-29/1000
Middle	30/1000-58/1000
Doffer end	34/1000- 3/16
Doffer from cylinder	5/1000- 7/1000
Doffer comb from doffer	10/1000-22/1000
Flats from cylinder	7/1000-12/1000

Card Clothing Data

English Counts	Points per Square Foot	American Number of Wire
60s	43,200	28
70s	50,400	30
80s	57,600	31
90s	64,800	32
100s	72,000	33
110s	79,200	34
120s	86,400	35
130s	93,600	36

Counts ordinarily used

	Cylinders	Doffers	Flats
Coarse yarns . . .	90s to 100s	100s to 110s	90s to 100s
Medium yarns . . .	100s to 110s	110s to 120s	100s to 110s

Common and Range of Production for Cotton Machinery

MACHINE	Range of Draft	Common Draft	Range of Production (10 Hours)	Common Production (10 Hours)	Per Cent Waste	Range of Speeds R. P. M.	Common Speeds R. P. M.	Range of Sizes	Common Sizes	Per Cent Stops
Bale opener . . .	-	-	4,000-10,000	5,000-7,000	-	9" Cal. Roll	-	-	-	10
Breaker picker . .	-	2	1,500-3,000	2,000	2.5-3	4-8	6	10-20	13-16	5
Intermediate picker	3-5	4	1,000-2,500	1,200-1,600	1.5-2	4-8	6	10-20	12-15	5
Finisher picker . .	3-5	4	1,000-2,500	1,200-1,600	1.5-2	4-8	6	10-20	11-14	10
Card	85-130	90-110	30-200	85-150	4-12 (5-6)	27" Doffer	6-12	Grains	50-60	5
Sliver lapper (20 ends)	1 $\frac{1}{2}$ -2 $\frac{1}{2}$	2-2 $\frac{1}{2}$	750-1,200	1,000	1	4-18	90-100	30-100	450-600	25
Ribbon lapper (4 head)	3-5	4	750-1,200	1,000	1	5" Press Roll	90-100	350-800	450-600	25
Comb (8 head) . .	40-80	60	80-150	100-125	Noil 8-30 Common 12-18	90-100	100	Grains	50-60	5
Draw frame (6 ends)	4-8	6	75-300	100-150	Less than 1	Nips 90-130	300-330	40-70	50-60	20-25
Stubber	3-5	4			Less than 1	Front Roll 27.5-37.5	Sp. Speed 600-800	Hank	Hank	15-20
Intermediate . . .	4-6	5			Less than 1	Sp. Speed 800-1,000	600-800	.25-1.0	.4-1.0	12-15
Fine	5-7	6			Less than 1	1,000-1,200	1,000-1,200	1-2.5	1-2.5	4-12
Jack	6-8	7			Less than 1	1,200-1,500	1,200-1,500	2.5-6.0	2.5-6.0	7-9
Ring spinning . .	6-20	8-12			Less than 1	4,000-10,000	4,000-10,000	6 Hank and up	6 Hank and up	10
Mule	6-20	8-12	see pages 229, 230, 231, 232, 233, 234	figures 232, 233, 234	Less than 1	4,000-10,000	4,000-10,000	4's-140	4's-140	12

Range of Production of Roving Frames

SLUBBER (12 x 6 Bobbin)

Hank Roving	Twist per Inch	R. P. M. Front Roll	Sets per Day	Hanks per Day	Pounds Production per Spindle for 10 Hours ¹
.25	.50- .60	267-322	17.24-17.54	11.85-13.30	47.4-53.21
.30	.55- .66	243-292	14.59-14.87	12.03-13.37	40.11-44.57
.35	.59- .71	226-273	12.55-12.81	12.08-13.42	34.52-38.36
.40	.63- .76	211-255	10.88-11.12	11.97-13.46	29.93-33.66
.45	.67- .80	201-240	9.60- 9.83	11.88-13.25	26.39-29.45
.50	.71- .85	189-226	8.44- 8.73	11.61-13.09	23.21-26.18
.55	.74- .89	180-217	7.54- 7.72	11.40-12.96	20.72-23.57
.60	.78- .93	173-206	6.77- 7.00	11.17-12.52	18.61-20.87
.65	.81- .97	165-199	6.11- 6.27	10.92-12.33	16.80-18.98
.70	.84-1.00	160-191	5.59- 5.74	10.75-12.16	15.36-17.38
.75	.87-1.04	154-185	5.09- 5.23	10.49-11.90	13.99-15.87
.80	.90-1.07	150-179	4.69- 4.82	10.31-11.56	12.89-14.46

SLUBBER (11 x 5½ Bobbin)

.40	.63- .76	234-277	14.53-14.54	11.62-12.64	29.06-31.60
.45	.67- .80	223-260	13.02 -	11.71-12.55	26.04-27.90
.50	.71- .84	210-245	11.60-11.70	11.60-12.50	23.21-25.00
.55	.74- .89	200-235	10.46-10.47	11.52-12.45	20.72-22.64
.60	.78- .92	192-223	9.49- 9.57	11.38-12.19	18.61-20.32
.65	.81- .97	184-215	8.63- 8.64	11.22-12.18	16.80-18.75
.70	.84-1.00	178-207	7.95 -	11.13-11.99	15.36-17.14
.75	.87-1.04	171-200	7.28 -	10.92-11.83	13.99-15.78
.80	.90-1.07	166-194	6.74- 6.75	10.78-11.71	12.89-14.64
.85	.92-1.11	160-189	6.21- 6.22	10.57-11.59	11.82-13.64
.90	.95-1.14	156-183	5.79 -	10.42-11.38	10.97-12.64
.95	.97-1.17	152-180	5.40- 5.41	10.26-11.28	10.20-11.88
1.00	1.00-1.20	148-174	5.06- 5.07	10.12-11.10	9.52-11.10

INTERMEDIATE (10 x 5 Bobbin)

.90	1.04-1.14	190-206	8.57- 8.60	11.56-11.70	12.85-13.00
.95	1.07-1.17	185-200	8.07 -	11.50-11.58	12.10-12.19
1.00	1.10-1.20	180-195	7.59 -	11.38-11.34	11.38-11.34
1.05	1.13-1.23	176-190	7.15- 7.16	11.27-11.25	10.73-10.71
1.10	1.15-1.26	172-186	6.72- 6.75	11.08-11.18	10.08-10.16
1.15	1.18-1.29	168-182	6.37- 6.38	10.99-11.10	9.56- 9.65
1.20	1.20-1.31	165-179	6.07 -	10.93-11.04	9.11- 9.20
1.25	1.23-1.34	161-174	5.74- 5.75	10.76-10.89	8.61- 8.71
1.30	1.25-1.37	158-172	5.45- 5.46	10.63-10.73	8.18- 8.26
1.35	1.28-1.39	154-168	5.20- 5.21	10.53-10.62	7.80- 7.87
1.40	1.30-1.42	150-165	4.95- 4.96	10.39-10.51	7.42- 7.51
1.50	1.35-1.47	147-159	4.52- 4.53	10.17-10.26	6.78- 6.84
1.60	1.39-1.52	142-154	4.14 -	9.94-10.08	6.21- 6.30

¹ Allowance made for doffing, etc.

Range of Production of Roving Frames — (Continued)**INTERMEDIATE (9 x 4½ Bobbin)**

Hank Roving	Twist per Inch	R. P. M. Front Roll	Sets per Day	Hanks per Day	Pounds Production per Spindle for 10 Hours ¹
1.40	1.42 -	170 -	6.96- 6.95	10.40-10.96	7.43- 7.83
1.50	1.47 -	164-165	6.39- 6.40	10.14-10.80	6.76- 7.20
1.60	1.52 -	159 -	5.88 -	10.00-10.59	6.25- 6.62
1.75	1.59 -	152 -	5.23- 5.24	9.71-10.31	5.55- 5.89
2.00	1.69-1.70	142 -	4.39 -	9.32- 9.88	4.66- 4.94

INTERMEDIATE (8 x 4 Bobbin)

2.50	1.90 -	156-160	4.45 -	9.70- 9.75	3.66- 3.90
3.00	2.08 -	143-146	3.48- 3.49	9.12- 9.15	2.85- 3.05
3.50	2.24 -	133-136	8.65 -	8.68- 8.65	2.31- 2.47

FLY FRAME (7 x 3½ Bobbin)

3.00	2.07-2.25	151-157	5.10- 5.12	8.67- 9.60	2.89- 3.20
3.25	2.16-2.34	145-151	4.60 -	8.48- 9.36	2.61- 2.88
3.50	2.24-2.43	140-145	4.17 -	8.33- 9.14	2.38- 2.61
3.75	2.32-2.52	135-140	3.80 -	8.14- 8.93	2.17- 2.38
4.00	2.40-2.60	131-136	3.47- 3.48	7.96- 8.72	1.99- 2.18
4.25	2.47-2.68	127-132	3.20 -	7.86- 8.50	1.85- 2.00
4.50	2.54-2.76	123-128	2.96 -	7.70- 8.33	1.71- 1.85
4.75	2.60-2.83	120-125	2.75 -	7.55- 8.17	1.59- 1.72
5.00	2.67-2.90	117-121	2.55- 2.56	7.45- 8.00	1.49- 1.60
5.25	2.75-2.98	114-119	2.38 -	7.30- 7.82	1.39- 1.49
5.50	2.80-3.05	111-116	2.23- 2.24	7.15- 7.70	1.30- 1.40
5.75	2.88-3.12	109-113	2.09 -	7.02- 7.53	1.22- 1.31
6.00	2.92-3.18	107-111	1.97 -	6.96- 7.38	1.16- 1.23
6.50	3.06-3.31	103-106	1.76 -	6.70- 7.15	1.03- 1.10
7.00	3.17-3.44	98-103	1.58 -	6.44- 6.93	.92- .99

JACK FRAME (6 x 3 Bobbin)

8.00	3.39-3.40	104-109	1.98- 2.06	6.88- 7.21	.86- .90
9.00	3.60 -	98-102	1.67- 1.74	6.57- 6.85	.73- .76
10.00	3.79 -	93- 97	1.44- 1.50	6.30- 6.56	.63- .66
11.00	3.97-3.99	89- 92	1.26- 1.30	6.05- 6.26	.55- .57
12.00	4.16 -	85- 89	1.15- 1.14	5.88- 6.04	.49- .50
13.00	4.33 -	82- 85	.98- 1.02	5.59- 5.80	.43- .45
14.00	4.49-4.50	79- 82	.88- .92	5.39- 5.46	.39- .40

¹ Allowance made for doffing, etc.

Range of Production of Roving Frames — (Concluded)

JACK (6 x 2½ Bobbin)

Hank Roving	Twist per Inch	R. P. M. Front Roll	Sets per Day	Hanks per Day	Pounds Production per Spindle for 10 Hours ¹
11.00	3.97-4.31	89-100	1.71- 1.93	5.72- 6.63	.52- .60
12.00	4.15-4.50	85- 95	1.51- 1.70	5.52- 6.36	.46- .53
13.00	4.33-4.69	82- 91	1.34- 1.52	5.33- 6.18	.41- .48
14.00	4.49-4.86	79- 88	1.20- 1.37	5.18- 5.99	.37- .43
16.00	4.80-5.20	74- 83	.99- 1.12	4.96- 5.60	.31- .35
18.00	5.08-5.52	69- 78	.83- .95	4.68- 5.35	.26- .30
20.00	5.36-5.81	66- 74	.71- .81	4.40- 5.06	.22- .28
22.00	5.62-6.10	63- 70	.62- .71	4.18- 4.89	.19- .22
24.00	5.87-6.37	60- 67	.55- .62	4.08- 4.66	.17- .19

JACK (7 x 3 Bobbin)

5.50	2.80-2.82	125-127	3.10- 2.93	7.70- 7.93	1.45- 1.40
5.75	2.88 -	118-123	2.54- 2.40	7.65- 7.76	1.35- 1.33
6.00	2.92-2.94	115-120	2.26- 2.41	7.56- 7.68	1.28- 1.26
6.50	3.06 -	111-116	2.02- 2.14	7.35- 7.41	1.14- 1.13
7.00	3.17 -	107-112	1.82- 1.93	7.14- 7.21	1.03- 1.02
7.50	3.29 -	103-108	1.64- 1.74	6.98- 6.90	.92- .93
8.00	3.39-3.40	100-104	1.50- 1.58	6.76- 6.72	.84- .85
9.00	3.60 -	94- 98	1.27- 1.34	6.48- 6.39	.71- .72

¹ Allowance made for doffing, etc.

Range of Production of Ring Filling Yarn

YARN NUMBER	R. P. M. Spindles	Twist per Inch	R. P. M. Front Roll	Pounds Production per Spindle for 10 Hours ¹
4	4,000-4,700	6.50-7.50	182.0-200	2.414-2.480
5	4,400-4,875	7.27-7.83	178.8-198	1.897-1.968
6	4,800-5,225	7.96-8.57	178.3-194	1.594-1.600
7	5,150-5,525	8.60-9.26	176.9-190	1.356-1.344
8	5,450-5,825	9.19-9.90	175.3-188	1.176-1.189
9	5,700-6,025	9.75-10.50	172.7-186	1.030-1.033
10	5,950-6,225	10.28-11.07	171.0-184	.928-.910
11	6,150-6,375	10.78-11.61	168.6-182	.832-.820
12	6,350-6,500	11.26-12.12	166.7-179	.763-.733
13	6,500-6,675	11.72-12.62	164.0-177	.693-.665
14	6,700-6,825	12.16-13.10	162.7-175	.638-.617
15	6,850-6,975	12.59-13.56	160.7-173	.588-.569
16	6,950-7,125	13.00-14.00	158.0-170	.542-.533
17	7,100-7,250	13.40-14.43	156.6-168	.506-.496
18	7,200-7,425	13.79-14.85	154.3-166	.471-.471
19	7,300-7,525	14.17-15.26	152.5-164	.441-.440
20	7,400-7,675	14.53-15.65	150.4-162	.418-.420
21	7,500-7,800	14.89-16.04	148.8-160	.394-.397
22	7,600-7,950	15.24-16.42	147.3-158	.372-.378
23	7,700-8,075	15.59-16.79	145.9-156	.352-.362
24	7,800-8,200	15.92-17.15	144.7-154	.335-.345
25	7,850-8,300	16.25-17.50	142.8-152	.317-.333
26	7,850-8,400	16.57-17.85	140.0-150	.302-.318
27	7,850-8,325	16.89-17.66	141.6-150	.295-.310
28	7,900-8,300	17.20-17.99	139.7-147	.280-.293
29	7,900-8,300	17.50-18.29	137.4-145	.266-.279
30	7,900-8,300	17.80-18.35	136.9-144	.259-.267
31	7,900-8,300	18.10-18.62	135.0-142	.248-.256
32	7,900-8,250	18.38-18.64	134.9-141	.239-.248
33	7,900-8,200	18.67-18.94	133.3-138	.229-.236
34	7,900-8,150	18.95-18.95	132.7-137	.222-.227
35	7,900-8,150	19.23-19.23	130.7-135	.214-.217
36	7,900-8,150	19.50-19.50	128.9-133	.206-.211
37	7,900-8,125	19.77-19.77	127.2-131	.195-.202
38	7,900-8,100	20.03-20.03	125.5-129	.190-.193
39	7,900-8,100	20.30-20.30	123.8-127	.182-.185
40	7,900-8,075	20.55-20.55	122.0-125	.177-.179
41	7,900-8,050	20.81-20.81	120.8-123	.171-.173
42	7,900-8,000	21.06-21.06	119.0-121	.165-.166
43	7,900-7,975	21.31-21.31	117.9-119	.159-.159
44	7,900-7,975	21.56-21.56	116.6-118	.154-.154
45	7,900-7,950	21.80-21.80	115.0-116	.149-.149
46	7,900-7,950	22.04-22.04	114.0-115	.144-.145
47	7,900-7,900	22.28-22.28	112.8-113	.139-.140
48	7,900-7,850	22.52-22.52	112.0-111	.135-.134
49	7,900-7,850	22.75-22.75	111.0-110	.131-.131
50	7,900-7,800	22.98-22.98	109.4-108	.128-.126
55	7,900-7,800	24.10-24.10	104.3-103	.112-.110
60	7,900-7,825	25.16-25.17	100.0-99	.100-.098
65	7,800-7,850	25.79-26.20	95.0-97	.088-.088
70	7,800-7,825	26.75-27.19	91.0-93	.079-.080
75	7,800-7,825	27.71-28.15	88.0-90	.072-.072
80	7,700-7,825	28.16-29.07	84.0-87	.066-.066
85	7,600-7,800	29.04-29.96	81.0-84	.059-.060
90	7,400-7,725	29.39-30.83	77.0-81	.054-.054
95	7,400-7,675	30.19-31.68	74.0-78	.050-.049
100	7,200-7,650	30.50-32.50	71.0-76	.046-.046

¹ Allowance made for doffing, etc.

Range of Production of Ring Warp Yarn

YARN NUMBER	R. P. M. Spindles	Twist per Inch	R. P. M. Front Roll	Pounds Production per Spindle for 10 Hours ¹
4	4,950-5,075	9.50	166.0-170.0	2.278-2.323
5	5,450-5,550	10.62	163.2-167.0	1.791-1.822
6	5,900-6,000	11.63	161.4-165.0	1.477-1.513
7	6,300-6,450	12.56	159.6-163.0	1.252-1.282
8	6,650-6,725	13.43	157.6-160.0	1.082-1.103
9	7,000-7,100	14.25	156.3-158.0	.954-.968
10	7,250-7,250	15.02	153.6-154.0	.853-.859
11	7,500-7,550	15.75	151.5-152.0	.765-.771
12	7,750-7,775	16.45	150.0-150.0	.694-.697
13	7,950-8,000	17.12	147.8-149.0	.631-.640
14	8,150-8,175	17.77	145.9-146.0	.579-.582
15	8,300-8,325	18.39	143.6-144.0	.632-.535
16	8,450-8,475	19.00	141.5-142.0	.497-.495
17	8,600-8,625	19.58	139.7-140.0	.468-.460
18	8,750-8,750	20.15	138.1-138.0	.429-.427
19	8,850-8,850	20.70	136.0-136.0	.398-.400
20	8,950-8,925	21.24	134.0-134.0	.376-.378
21	9,050-9,050	21.76	132.3-132.0	.334-.365
22	9,100-9,100	22.27	130.0-130.0	.332-.333
23	9,150-9,175	22.78	127.8-128.0	.312-.314
24	9,200-9,225	23.27	125.8-126.0	.294-.297
25	9,300-9,300	23.75	124.6-125.0	.280-.285
26	9,400-9,425	24.22	123.7-124.0	.270-.272
27	9,450-9,475	24.68	121.9-122.0	.256-.258
28	9,500-9,475	25.13	120.2-120.0	.244-.245
29	9,500-9,500	25.58	118.2-118.0	.231-.232
30	9,500-9,550	26.02	116.2-117.0	.220-.225
31	9,500-9,550	26.44	114.4-115.0	.210-.214
32	9,500-9,550	26.87	112.5-113.0	.200-.204
33	9,550-9,600	27.28	111.4-112.0	.192-.195
34	9,600-9,650	27.69	110.3-111.0	.184-.188
35	9,600-9,675	28.10	108.7-110.0	.178-.181
36	9,700-9,675	28.50	108.3-108.0	.173-.173
37	9,700-9,700	28.89	106.8-107.0	.166-.186
38	9,800-9,700	29.28	106.5-106.0	.161-
39	9,800-9,700	29.66	105.2-105.0	.155-
40	9,700-9,700	29.07	106.2-104.0	.152-
41	9,700-9,700	29.44	104.9-104.0	.147-
42	9,675-9,700	29.80-29.9	103.0-103.6	.142-.144
43	9,675-9,700	30.13-30.2	102.0-102.5	.137-.140
44	9,675-9,700	30.49-30.5	101.0-101.2	.132-.135
45	9,675-9,700	30.82-30.8	100.0-100.2	.129-.131
46	9,681-9,700	31.18-28.8	107.0-99.0	.125-.137
47	9,690-9,700	31.51-29.1	106.0-98.0	.121-.133
48	9,698-9,700	31.83-29.4	105.0-97.0	.117-.129
49	9,736-9,700	32.20-29.8	104.0-95.9	.114-.125
50	9,740-9,700	32.52-30.1	103.0-94.9	.110-.122
55	9,896-9,600	33.34-31.5	100.0-91.6	.098-.107
60	9,544-9,600	34.83-31.0	98.0-87.7	.087-.098
65	9,640-9,600	36.27-32.3	95.0-84.2	.077-.088
70	9,577-9,600	37.62-33.5	91.0-81.2	.069-.079
75	9,456-9,500	38.10-34.6	87.0-79.4	.063-.070
80	9,447-9,500	39.33-35.8	84.0-76.9	.058-.064
85	9,274-9,100	39.64-36.9	80.0-74.0	.052-.057
90	9,073-9,100	40.76-38.0	76.0-71.0	.048-.051
95	8,944-9,000	41.83-39.0	73.0-68.5	.044-.047
100	8,796-8,700	42.00-40.0	70.0-65.9	.040-.042

¹ Allowance made for doffing, etc.

Range of Production of Ring Hosiery Yarns

[Twist Multiplier—3.00]

YARN NUMBER	R. P. M. Spindles	Twist per Inch	R. P. M. Front Roll	Pounds Production per Spindle for 10 Hours ¹
4	3,393-3,400	6.00	180-180.3	2.359-2.400
5	3,700-3,711	6.71	176-175.4	1.836-1.872
6	3,995-4,000	7.35	173-173.2	1.511-1.537
7	4,191-4,200	7.94	168-168.3	1.258-1.280
8	4,396-4,400	8.49	165-164.9	1.092-1.112
9	4,609-4,600	9.00	163-162.6	.957- .976
10	4,800-4,800	9.49	161-161.0	.853- .878
11	5,001-5,000	9.95	160-159.9	.770- .793
12	5,157-5,150	10.39	158-157.7	.704- .718
13	5,337-5,350	10.82	157-157.4	.649- .666
14	5,499-5,500	11.22	156-156.3	.598- .614
15	5,658-5,650	11.62	155-154.7	.553- .570
16	5,806-5,800	12.00	154-153.8	.515- .530
17	5,907-5,900	12.37	152-151.7	.484- .493
18	5,999-6,000	12.73	150-150.0	.446- .459
19	6,077-6,100	13.08	148-148.4	.423- .435
20	6,109-6,100	13.42	145-144.6	.396- .404
21	6,177-6,100	13.75	143-141.2	.369- .380
22	6,188-6,200	14.07	140-140.2	.349- .355
23	6,193-6,200	14.39	137-137.1	.327- .332
24	6,235-6,200	14.70	135-134.2	.310- .313
25	6,267-6,300	15.00	133-133.7	.297- .296
26	6,297-6,300	15.30	131-131.0	.283- .284
27	6,318-6,300	15.59	129-128.6	.267- .269
28	6,332-6,300	15.87	127-126.3	.253- .259
29	6,342-6,300	16.16	125-124.0	.240- .246
30	6,400-6,400	16.43	124-123.9	.232- .236

¹ Allowance made for doffing, etc.

Roving Table

For numbering by weight, in grains, of 12 yards; and showing twist per inch

Weight (Grains)	Hank Roving	Square Root	Twist per Inch							
			Twist Multipliers							
			.70	.80	.90	1.00	1.10	1.20	1.25	1.30
500.00	.20	.447	.31	.36	.40	.45	.49	.54	.56	.58
400.00	.25	.500	.35	.40	.45	.50	.55	.60	.63	.65
333.33	.30	.548	.38	.44	.49	.55	.60	.66	.69	.71
285.71	.35	.592	.41	.47	.53	.59	.65	.71	.74	.77
250.00	.40	.632	.44	.50	.57	.63	.69	.76	.79	.82
222.22	.45	.671	.47	.54	.60	.67	.74	.81	.84	.87
200.00	.50	.707	.49	.57	.64	.71	.78	.85	.88	.92
181.82	.55	.742	.52	.59	.67	.74	.82	.89	.93	.96
166.67	.60	.775	.54	.62	.70	.78	.85	.93	.97	1.01
153.85	.65	.806	.56	.64	.73	.81	.89	.97	1.01	1.05
142.86	.70	.837	.59	.67	.75	.84	.92	1.00	1.05	1.09
133.33	.75	.866	.61	.69	.78	.87	.95	1.04	1.08	1.13
125.00	.80	.894	.63	.72	.80	.89	.98	1.07	1.12	1.16
117.65	.85	.922	.65	.74	.83	.92	1.01	1.11	1.15	1.20
111.11	.90	.949	.66	.76	.85	.95	1.04	1.14	1.19	1.23
105.26	.95	.975	.68	.78	.88	.98	1.07	1.17	1.22	1.27
100.00	1.00	1.000	.70	.80	.90	1.00	1.10	1.20	1.25	1.30
95.25	1.05	1.025	.72	.82	.92	1.03	1.13	1.23	1.28	1.33
90.91	1.10	1.049	.73	.84	.94	1.05	1.15	1.26	1.31	1.36
86.96	1.15	1.073	.75	.86	.97	1.07	1.18	1.29	1.34	1.39
83.33	1.20	1.095	.77	.88	.99	1.10	1.20	1.31	1.37	1.42
80.00	1.25	1.118	.78	.89	1.01	1.12	1.23	1.34	1.40	1.45
76.92	1.30	1.140	.80	.91	1.03	1.14	1.25	1.37	1.43	1.48
74.07	1.35	1.162	.81	.93	1.05	1.16	1.28	1.39	1.45	1.51
71.43	1.40	1.183	.83	.95	1.06	1.18	1.30	1.42	1.48	1.54
69.00	1.45	1.204	.84	.96	1.08	1.20	1.32	1.44	1.51	1.57
66.67	1.50	1.225	.86	.98	1.10	1.23	1.35	1.47	1.53	1.59
64.52	1.55	1.245	.87	1.00	1.12	1.25	1.37	1.49	1.56	1.62
62.50	1.60	1.265	.89	1.01	1.14	1.27	1.39	1.52	1.58	1.64
60.61	1.65	1.285	.90	1.03	1.16	1.29	1.41	1.54	1.61	1.67
58.82	1.70	1.304	.91	1.04	1.17	1.30	1.43	1.56	1.63	1.70
57.14	1.75	1.323	.93	1.06	1.19	1.32	1.46	1.59	1.65	1.72
55.56	1.80	1.342	.94	1.07	1.21	1.34	1.48	1.61	1.68	1.74
54.05	1.85	1.360	.95	1.09	1.22	1.36	1.50	1.63	1.70	1.77
52.63	1.90	1.378	.96	1.10	1.24	1.38	1.52	1.65	1.72	1.79
51.27	1.95	1.397	.98	1.12	1.26	1.40	1.54	1.68	1.75	1.82
50.00	2.00	1.414	.99	1.13	1.27	1.41	1.56	1.70	1.77	1.84
48.78	2.05	1.432	1.00	1.15	1.29	1.43	1.58	1.72	1.79	1.86
47.62	2.10	1.449	1.01	1.16	1.30	1.45	1.59	1.74	1.81	1.88
46.51	2.15	1.467	1.03	1.17	1.32	1.47	1.61	1.76	1.83	1.91
45.45	2.20	1.483	1.04	1.19	1.33	1.48	1.63	1.78	1.85	1.93
44.44	2.25	1.500	1.05	1.20	1.35	1.50	1.65	1.80	1.88	1.95
43.48	2.30	1.515	1.06	1.21	1.36	1.52	1.67	1.82	1.89	1.97
42.55	2.35	1.535	1.07	1.23	1.38	1.54	1.69	1.84	1.92	2.00
41.67	2.40	1.549	1.08	1.24	1.39	1.55	1.70	1.86	1.94	2.01
40.82	2.45	1.565	1.10	1.25	1.41	1.57	1.72	1.88	1.96	2.03
40.00	2.50	1.583	1.11	1.27	1.42	1.58	1.74	1.90	1.98	2.06
39.22	2.55	1.597	1.12	1.28	1.44	1.60	1.76	1.92	2.00	2.08
38.46	2.60	1.611	1.13	1.29	1.45	1.61	1.77	1.93	2.01	2.09
37.73	2.65	1.630	1.14	1.30	1.47	1.63	1.79	1.96	2.04	2.12
37.04	2.70	1.643	1.15	1.31	1.48	1.64	1.81	1.97	2.05	2.14
36.36	2.75	1.658	1.16	1.33	1.49	1.66	1.82	1.99	2.07	2.16

Roving Table — (Continued)

Weight (Grains)	Hank Roving	Square Root	TWIST PER INCH							
			TWIST MULTIPLIERS							
			.80	.90	1.00	1.10	1.20	1.25	1.30	1.35
35.71	2.80	1.673	1.34	1.51	1.67	1.84	2.01	2.09	2.17	2.26
35.09	2.85	1.688	1.35	1.52	1.69	1.86	2.03	2.11	2.19	2.28
34.48	2.90	1.703	1.36	1.53	1.70	1.87	2.04	2.13	2.21	2.30
33.91	2.95	1.718	1.37	1.55	1.72	1.89	2.06	2.15	2.23	2.32
33.33	3.00	1.732	1.39	1.56	1.73	1.91	2.08	2.17	2.25	2.34
32.79	3.05	1.746	1.40	1.57	1.75	1.92	2.10	2.18	2.27	2.36
32.26	3.10	1.760	1.41	1.58	1.76	1.94	2.11	2.20	2.29	2.38
31.76	3.15	1.775	1.42	1.60	1.78	1.95	2.13	2.22	2.31	2.40
31.25	3.20	1.789	1.43	1.61	1.79	1.97	2.15	2.24	2.33	2.42
30.78	3.25	1.803	1.44	1.62	1.80	1.98	2.16	2.25	2.34	2.43
30.30	3.30	1.817	1.45	1.64	1.82	2.00	2.18	2.27	2.36	2.45
29.86	3.35	1.831	1.46	1.65	1.83	2.01	2.20	2.29	2.38	2.47
29.41	3.40	1.844	1.48	1.66	1.84	2.02	2.21	2.31	2.40	2.49
28.99	3.45	1.857	1.49	1.67	1.86	2.04	2.23	2.32	2.41	2.51
28.57	3.50	1.870	1.50	1.68	1.87	2.06	2.24	2.34	2.43	2.52
28.17	3.55	1.884	1.51	1.70	1.88	2.07	2.26	2.36	2.45	2.54
27.78	3.60	1.897	1.52	1.71	1.90	2.09	2.28	2.37	2.47	2.56
27.40	3.65	1.910	1.53	1.72	1.91	2.10	2.29	2.39	2.48	2.58
27.03	3.70	1.924	1.54	1.73	1.92	2.12	2.31	2.41	2.50	2.60
26.67	3.75	1.936	1.55	1.74	1.94	2.13	2.32	2.42	2.52	2.61
26.32	3.80	1.950	1.56	1.76	1.95	2.15	2.34	2.44	2.54	2.63
25.98	3.85	1.963	1.57	1.77	1.96	2.16	2.36	2.45	2.55	2.65
25.64	3.90	1.975	1.58	1.78	1.98	2.17	2.37	2.47	2.57	2.67
25.32	3.95	1.987	1.59	1.79	1.99	2.19	2.38	2.48	2.58	2.68
25.00	4.00	2.000	1.60	1.80	2.00	2.20	2.40	2.50	2.60	2.70
24.69	4.05	2.012	1.61	1.81	2.01	2.21	2.41	2.52	2.62	2.72
24.39	4.10	2.025	1.62	1.82	2.03	2.23	2.43	2.53	2.63	2.73
24.10	4.15	2.038	1.63	1.83	2.04	2.24	2.45	2.55	2.65	2.75
23.81	4.20	2.049	1.64	1.84	2.05	2.25	2.46	2.56	2.66	2.77
23.53	4.25	2.063	1.65	1.86	2.06	2.27	2.48	2.58	2.68	2.79
23.26	4.30	2.074	1.66	1.87	2.07	2.28	2.49	2.59	2.70	2.80
23.00	4.35	2.085	1.67	1.88	2.09	2.29	2.50	2.61	2.71	2.81
22.73	4.40	2.098	1.68	1.89	2.10	2.31	2.52	2.62	2.73	2.83
22.48	4.45	2.110	1.69	1.90	2.11	2.32	2.53	2.64	2.74	2.85
22.22	4.50	2.121	1.70	1.91	2.12	2.33	2.55	2.65	2.76	2.86
21.98	4.55	2.133	1.71	1.92	2.13	2.35	2.56	2.67	2.77	2.88
21.74	4.60	2.145	1.72	1.93	2.15	2.36	2.57	2.68	2.79	2.90
21.51	4.65	2.156	1.72	1.94	2.16	2.37	2.59	2.70	2.80	2.91
21.28	4.70	2.167	1.73	1.95	2.17	2.38	2.60	2.71	2.82	2.93
21.05	4.75	2.179	1.74	1.96	2.18	2.40	2.61	2.72	2.83	2.94
20.83	4.80	2.191	1.75	1.97	2.19	2.41	2.63	2.74	2.85	2.96
20.62	4.85	2.202	1.76	1.98	2.20	2.42	2.64	2.75	2.86	2.97
20.41	4.90	2.213	1.77	1.99	2.21	2.43	2.66	2.77	2.88	2.99
20.20	4.95	2.225	1.78	2.00	2.23	2.45	2.67	2.78	2.89	3.00
20.00	5.00	2.236	1.79	2.01	2.24	2.46	2.68	2.80	2.91	3.02
19.80	5.05	2.247	1.80	2.02	2.25	2.47	2.70	2.81	2.92	3.03
19.61	5.10	2.259	1.81	2.03	2.26	2.48	2.71	2.82	2.94	3.05
19.42	5.15	2.269	1.82	2.04	2.27	2.50	2.72	2.84	2.95	3.06
19.23	5.20	2.280	1.82	2.05	2.28	2.51	2.74	2.85	2.96	3.08
19.05	5.25	2.291	1.83	2.06	2.29	2.52	2.75	2.86	2.98	3.09
18.87	5.30	2.302	1.84	2.07	2.30	2.53	2.76	2.88	2.99	3.11
18.69	5.35	2.313	1.85	2.08	2.31	2.54	2.78	2.89	3.01	3.12

Roving Table—(Continued)

Weight (Grains)	Hank Roving	Square Root	TWIST PER INCH							
			TWIST MULTIPLIERS							
			1.00	1.10	1.20	1.25	1.30	1.35	1.40	1.45
18.52	5.40	2.324	2.32	2.56	2.79	2.91	3.02	3.14	3.25	3.37
18.35	5.45	2.334	2.33	2.57	2.80	2.92	3.03	3.15	3.27	3.38
18.18	5.50	2.345	2.35	2.58	2.81	2.93	3.05	3.17	3.28	3.40
18.02	5.55	2.356	2.36	2.59	2.83	2.95	3.06	3.18	3.30	3.42
17.86	5.60	2.366	2.37	2.60	2.84	2.96	3.08	3.19	3.31	3.43
17.70	5.65	2.377	2.38	2.61	2.85	2.97	3.09	3.21	3.33	3.45
17.54	5.70	2.388	2.39	2.63	2.87	2.99	3.10	3.22	3.34	3.46
17.36	5.75	2.398	2.40	2.64	2.88	3.00	3.12	3.24	3.36	3.48
17.24	5.80	2.408	2.41	2.65	2.89	3.01	3.13	3.25	3.37	3.49
17.09	5.85	2.418	2.42	2.66	2.90	3.02	3.14	3.26	3.39	3.51
16.95	5.90	2.429	2.43	2.67	2.91	3.04	3.16	3.28	3.40	3.52
16.81	5.95	2.439	2.44	2.68	2.93	3.05	3.17	3.29	3.41	3.54
16.67	6.00	2.449	2.45	2.69	2.94	3.06	3.18	3.31	3.43	3.55
16.39	6.10	2.470	2.47	2.72	2.96	3.09	3.21	3.33	3.46	3.58
16.27	6.15	2.480	2.48	2.73	2.98	3.10	3.22	3.35	3.47	3.60
16.03	6.25	2.500	2.50	2.75	3.00	3.13	3.25	3.38	3.50	3.63
15.87	6.30	2.510	2.51	2.76	3.01	3.14	3.26	3.39	3.52	3.64
15.62	6.40	2.530	2.53	2.78	3.04	3.16	3.29	3.42	3.54	3.67
15.38	6.50	2.550	2.55	2.81	3.06	3.19	3.32	3.44	3.57	3.70
15.15	6.60	2.569	2.57	2.83	3.08	3.21	3.34	3.47	3.60	3.73
14.93	6.70	2.588	2.59	2.85	3.11	3.24	3.36	3.49	3.62	3.75
14.82	6.75	2.597	2.60	2.86	3.12	3.25	3.38	3.51	3.64	3.77
14.71	6.80	2.608	2.61	2.87	3.13	3.26	3.39	3.52	3.65	3.78
14.49	6.90	2.627	2.63	2.89	3.15	3.28	3.42	3.55	3.68	3.81
14.29	7.00	2.646	2.65	2.91	3.18	3.31	3.44	3.58	3.70	3.84
14.08	7.10	2.665	2.67	2.93	3.20	3.33	3.46	3.60	3.73	3.86
14.00	7.15	2.674	2.67	2.94	3.21	3.34	3.48	3.61	3.74	3.88
13.81	7.25	2.693	2.69	2.96	3.23	3.37	3.50	3.64	3.77	3.90
13.70	7.30	2.702	2.70	2.97	3.24	3.38	3.51	3.65	3.78	3.92
13.51	7.40	2.720	2.72	2.99	3.26	3.40	3.53	3.67	3.81	3.94
13.33	7.50	2.739	2.74	3.01	3.29	3.42	3.56	3.70	3.83	3.97
13.16	7.60	2.759	2.76	3.03	3.31	3.44	3.58	3.72	3.86	4.00
12.99	7.70	2.775	2.78	3.05	3.33	3.47	3.61	3.75	3.89	4.02
12.91	7.75	2.784	2.78	3.06	3.34	3.48	3.62	3.76	3.90	4.04
12.82	7.80	2.793	2.79	3.07	3.35	3.49	3.63	3.77	3.91	4.05
12.66	7.90	2.811	2.81	3.09	3.37	3.51	3.65	3.79	3.94	4.08
12.50	8.00	2.828	2.83	3.11	3.39	3.54	3.68	3.82	3.96	4.10
12.13	8.25	2.872	2.87	3.16	3.45	3.59	3.73	3.88	4.02	4.16
11.76	8.50	2.915	2.92	3.21	3.50	3.64	3.79	3.94	4.08	4.23
11.44	8.75	2.958	2.96	3.25	3.55	3.70	3.85	4.00	4.14	4.29
11.11	9.00	3.000	3.00	3.30	3.60	3.75	3.90	4.05	4.20	4.35
10.82	9.25	3.041	3.04	3.35	3.65	3.80	3.95	4.11	4.26	4.41
10.53	9.50	3.082	3.08	3.39	3.70	3.85	4.00	4.16	4.31	4.47
10.27	9.75	3.122	3.12	3.43	3.75	3.90	4.06	4.21	4.37	4.53
10.00	10.00	3.162	3.16	3.48	3.79	3.95	4.11	4.27	4.43	4.58
9.78	10.25	3.202	3.20	3.52	3.84	4.00	4.16	4.32	4.48	4.64
9.55	10.50	3.240	3.24	3.56	3.89	4.05	4.21	4.37	4.54	4.71
9.32	10.75	3.278	3.28	3.61	3.93	4.10	4.26	4.43	4.59	4.75
9.09	11.00	3.316	3.32	3.65	3.98	4.15	4.31	4.48	4.64	4.81
8.90	11.25	3.355	3.36	3.69	4.03	4.19	4.36	4.53	4.70	4.86
8.71	11.50	3.391	3.39	3.73	4.07	4.24	4.41	4.58	4.75	4.92
8.52	11.75	3.438	3.43	3.77	4.11	4.28	4.46	4.63	4.80	4.97

Roving Table—(Concluded)

Weight (Grains)	Hank Roving	Square Root	TWIST PER INCH							
			TWIST MULTIPLIERS							
			1.10	1.20	1.25	1.30	1.35	1.40	1.45	1.50
8.33	12.00	3.464	3.81	4.16	4.33	4.50	4.68	4.85	5.02	5.20
8.16	12.25	3.500	3.85	4.20	4.38	4.55	4.73	4.90	5.08	5.25
8.00	12.50	3.535	3.89	4.24	4.42	4.60	4.77	4.95	5.13	5.30
7.84	12.75	3.570	3.93	4.28	4.46	4.64	4.82	5.00	5.18	5.36
7.69	13.00	3.605	3.97	4.33	4.51	4.69	4.87	5.05	5.23	5.41
7.55	13.25	3.640	4.00	4.37	4.55	4.73	4.91	5.10	5.28	5.46
7.41	13.50	3.674	4.04	4.41	4.59	4.78	4.96	5.14	5.33	5.51
7.27	13.75	3.709	4.08	4.45	4.64	4.82	5.01	5.19	5.38	5.56
7.14	14.00	3.745	4.12	4.49	4.68	4.88	5.06	5.24	5.43	5.62
7.02	14.25	3.774	4.15	4.53	4.72	4.91	5.09	5.28	5.47	5.66
6.90	14.50	3.810	4.19	4.57	4.76	4.95	5.14	5.33	5.52	5.72
6.78	14.75	3.841	4.23	4.61	4.80	4.99	5.19	5.38	5.57	5.76
6.67	15.00	3.873	4.26	4.65	4.84	5.03	5.23	5.42	5.62	5.81
6.56	15.25	3.905	4.30	4.69	4.88	5.08	5.27	5.47	5.66	5.86
6.45	15.50	3.937	4.33	4.73	4.92	5.12	5.31	5.51	5.71	5.91
6.35	15.75	3.969	4.37	4.76	4.96	5.16	5.36	5.56	5.76	5.95
6.25	16.00	4.000	4.40	4.80	5.00	5.20	5.40	5.60	5.80	6.00
6.16	16.25	4.032	4.44	4.84	5.04	5.24	5.44	5.64	5.85	6.05
6.06	16.50	4.062	4.47	4.87	5.08	5.28	5.48	5.69	5.89	6.09
5.97	16.75	4.092	4.50	4.91	5.12	5.32	5.52	5.73	5.93	6.14
5.88	17.00	4.123	4.54	4.95	5.15	5.36	5.57	5.77	5.98	6.18
5.80	17.25	4.152	4.57	4.98	5.19	5.40	5.61	5.81	6.02	6.23
5.72	17.50	4.183	4.60	5.02	5.23	5.44	5.65	5.86	6.07	6.27
5.64	17.75	4.212	4.63	5.05	5.27	5.48	5.69	5.90	6.11	6.32
5.56	18.00	4.242	4.67	5.09	5.30	5.51	5.73	5.94	6.15	6.36
5.49	18.25	4.272	4.70	5.13	5.34	5.55	5.78	5.98	6.19	6.41
5.41	18.50	4.301	4.73	5.16	5.38	5.59	5.81	6.02	6.24	6.45
5.34	18.75	4.330	4.76	5.20	5.41	5.63	5.85	6.06	6.28	6.49
5.26	19.00	4.358	4.79	5.23	5.45	5.67	5.88	6.10	6.32	6.54
5.20	19.25	4.387	4.82	5.26	5.48	5.70	5.92	6.14	6.36	6.58
5.13	19.50	4.416	4.86	5.30	5.52	5.74	5.96	6.18	6.40	6.62
5.07	19.75	4.444	4.89	5.33	5.56	5.78	6.00	6.22	6.44	6.67
5.00	20.00	4.472	4.92	5.37	5.59	5.81	6.04	6.26	6.48	6.71
4.94	20.25	4.500	4.95	5.40	5.63	5.85	6.08	6.30	6.53	6.75
4.88	20.50	4.527	4.98	5.43	5.66	5.89	6.11	6.34	6.56	6.79
4.82	20.75	4.555	5.01	5.47	5.69	5.92	6.15	6.38	6.60	6.83
4.76	21.00	4.582	5.04	5.50	5.73	5.96	6.19	6.41	6.64	6.87
4.71	21.25	4.609	5.07	5.53	5.76	5.99	6.22	6.45	6.68	6.91
4.66	21.50	4.637	5.10	5.56	5.80	6.03	6.26	6.49	6.72	6.96
4.60	21.75	4.664	5.13	5.60	5.83	6.06	6.30	6.53	6.76	7.00
4.55	22.00	4.690	5.16	5.63	5.86	6.10	6.33	6.57	6.80	7.04
4.50	22.25	4.717	5.19	5.66	5.90	6.13	6.37	6.60	6.84	7.08
4.45	22.50	4.743	5.22	5.69	5.93	6.17	6.40	6.64	6.88	7.11
4.40	22.75	4.769	5.25	5.72	5.96	6.20	6.44	6.68	6.92	7.15
4.35	23.00	4.796	5.28	5.76	6.00	6.23	6.47	6.71	6.95	7.19
4.31	23.25	4.821	5.30	5.79	6.03	6.27	6.51	6.75	6.99	7.23
4.26	23.50	4.848	5.33	5.82	6.06	6.30	6.54	6.79	7.03	7.27
4.22	23.75	4.873	5.36	5.85	6.09	6.33	6.58	6.82	7.07	7.31
4.17	24.00	4.899	5.39	5.88	6.12	6.37	6.61	6.86	7.10	7.35
4.13	24.25	4.924	5.42	5.91	6.16	6.40	6.64	6.89	7.14	7.39
4.09	24.50	4.949	5.44	5.94	6.19	6.43	6.68	6.93	7.18	7.42
4.00	25.00	5.000	5.50	6.00	6.25	6.50	6.75	7.00	7.25	7.50

Conversion Table of Cotton Yarn Numbers

Metric Number	English Number	French Number	Austrian Number	Netherlands Number
1.	0.59	0.5	0.483	0.651
1.694	1.	0.8475	0.818	1.103
2.	1.18	1.	0.966	1.302
2.07	1.222	1.035	1.	1.3478
1.535	0.90629	.768	.74193	1.

Spinning Frame Production

To find 100 per cent Production per Spindle, in Pounds, from Speed of Front Roll:

$$\frac{\text{Circum. of Front Roll} \times \text{R. P. M.} \times \text{Minutes} \times \text{Hours}}{36 \text{ inches} \times 840 \times \text{No. of Yarn}} = \text{Lbs. per spindle.}$$

EXAMPLE:

$$\frac{3.1416 \times 90 \times 60 \times 54}{36 \times 840 \times 52} = .582 \text{ Lbs. per spindle.}$$

Roving Frame Production

To find 100 per cent Production of Roving Frames, in Hanks, from Speed of Front Roll:

$$\frac{\text{Circum. of Front Roll} \times \text{R. P. M.} \times \text{Minutes} \times \text{Hours}}{36 \text{ inches} \times 840} = \text{Hanks per spindle.}$$

EXAMPLE: Assume speed of front roll 80 r. p. m.

Assume Circum. of front roll 3.927 inches.

$$\frac{3.927 \times 80 \times 60 \times 54}{36 \times 840} = 33.66 \text{ Hanks per spindle.}$$

Yarn Organizations

Courtesy W. A. Graham Clark

Yarn Number	Lap	Ounce Per Yard	CARD		DRAW-FRAME		SLUBBER		INTER-MEDIATE		FINE FRAME		JACK FRAME		SPINNING				
			Draft	Sliver Grains	Sliver Grains	Sliver Hank	Doublings	Draft	Hank	Doublings	Draft	Hank	Doublings	Draft	Hank	Doublings	Draft		
6	16	93	75	75	111	1	3.6	.40	2	5.1	1.00	-	-	-	-	1	6.		
8	16	-	75	75	111	1	4.5	.50	2	5.1	1.25	-	-	-	-	1	6.		
10	14	94	65	65	128	1	3.9	.50	2	5.3	1.33	-	-	-	-	1	7.5		
12	14	-	65	65	128	1	4.7	.60	2	5.3	1.60	-	-	-	-	1	7.5		
-	14	-	65	65	128	1	3.9	.50	2	4.	1.00	2	5.	2.50	-	2	9.6		
14	14	-	65	65	128	1	4.7	.60	2	5.3	1.60	-	-	-	-	1	8.8		
-	14	-	65	65	128	1	3.9	.50	2	4.	1.00	2	5.	2.50	-	2	11.2		
16	14	-	65	65	128	1	4.7	.60	2	6.	1.80	-	-	-	-	1	8.8		
-	14	-	65	65	128	1	3.9	.50	2	4.	1.00	2	6.	3.00	-	2	10.6		
18	14	-	65	65	128	1	3.9	.50	2	4.	1.00	2	5.	2.50	-	1	7.2		
-	14	-	65	65	128	1	3.9	.50	2	4.	1.00	2	6.	3.00	-	2	12.0		
20	13	95	60	65	128	1	3.9	.50	2	4.	1.00	2	5.	2.50	-	1	8.0		
-	13	-	60	65	128	1	3.9	.50	2	5.3	1.33	2	6.	4.00	-	2	10.0		
22	13	-	60	65	128	1	3.9	.50	2	4.	1.00	2	5.	2.50	-	1	8.8		
-	13	-	60	65	128	1	3.9	.50	2	5.3	1.33	2	6.	4.00	-	2	11.0		
24	13	-	60	65	128	1	3.9	.50	2	4.	1.00	2	5.	2.50	-	1	8.0		
-	13	-	60	65	128	1	3.9	.50	2	5.3	1.33	2	6.	4.00	-	2	12.0		
26	13	-	60	65	128	1	3.9	.50	2	4.	1.00	2	6.	3.00	-	1	8.7		
-	13	-	60	65	128	1	4.7	.60	2	5.	1.50	2	6.	4.50	-	2	11.6		
28	12	-	50	60	139	1	3.6	.50	2	5.3	1.33	2	5.3	3.50	-	1	8.0		
-	12	-	50	60	139	1	4.7	.65	2	5.5	1.80	2	6.1	5.50	-	2	10.2		
30	12	-	50	60	139	1	3.6	.50	2	5.3	1.33	2	5.3	3.50	-	1	8.6		
-	12	-	50	60	139	1	4.7	.65	2	5.5	1.80	2	6.1	5.50	-	2	10.9		
32	12	-	50	60	139	1	3.6	.50	2	5.3	1.33	2	6.	4.00	-	1	8.0		
-	12	-	50	60	139	1	4.7	.65	2	5.5	1.80	2	6.1	5.50	-	2	11.6		
34	12	-	50	60	139	1	3.6	.50	2	5.3	1.33	2	6.	4.00	-	1	8.5		
-	12	-	50	60	139	1	4.7	.65	2	5.5	1.80	2	6.1	5.50	-	2	12.4		
36	12	-	50	60	139	1	3.6	.50	2	5.3	1.33	2	6.	4.00	-	1	9.0		
-	12	-	50	60	139	1	3.6	.50	2	4.	1.00	2	5.	2.50	2	5.2	6.5	2	11.1
38	12	-	50	60	139	1	3.6	.50	2	5.3	1.33	2	6.	4.00	-	1	9.5		
-	12	-	50	60	139	1	3.6	.50	2	4.	1.00	2	5.	2.50	2	5.2	6.5	2	11.7
40	12	-	50	60	139	1	3.6	.50	2	4.	1.00	2	5.	2.50	2	6.4	8.0	2	10.0
50	12	117	45	60	139	1	3.6	.50	2	4.	1.00	2	6.	3.00	2	6.7	10.	2	10.0
60	12	-	45	60	139	1	4.3	.60	2	5.	1.50	2	5.3	4.00	2	6.0	12.	2	10.0
70	12	-	45	60	139	1	4.3	.60	2	5.	1.50	2	6.	4.50	2	6.2	14.	2	10.0
80	12	-	45	60	139	1	4.7	.65	2	5.5	1.80	2	5.6	5.00	2	6.4	16.	2	10.0
90	12	-	45	60	139	1	4.7	.65	2	5.5	1.80	2	6.1	5.50	2	6.5	18.	2	10.0
100	12	-	45	60	139	1	4.7	.65	2	5.5	1.80	2	6.4	5.75	2	7.0	20.	2	10.0
110	11	137	35	50	167	1	4.8	.80	2	5.5	2.25	2	6.	6.76	2	6.5	22.	2	10.0
120	11	-	35	50	167	1	4.8	.80	2	5.5	2.25	2	6.	6.75	2	7.1	24.	2	10.0

Square Root of the Numbers or Counts, from One to Two Hundred Hanks in the Pound, with the Twist per Inch for Different Kinds of Yarns

The heavy figures opposite No. 1 show the multipliers for the square root of all numbers throughout the tables.

Counts or Numbers	Square Root	Ordinary Warp Twist	Low Warp Twist	Ordinary Mule Twist	Filling Twist	Ordinary Hosiery Twist	Medium Hosiery Twist
1	1.00	4.75	4.20	3.75	3.25	2.75	2.50
2	1.41	6.72	5.65	5.30	4.60	3.88	3.53
3	1.73	8.23	6.92	6.49	5.62	4.76	4.33
4	2.00	9.50	8.00	7.50	6.50	5.50	5.00
5	2.23	10.62	8.94	8.37	7.26	6.14	5.59
6	2.44	11.64	9.79	9.18	7.96	6.73	6.12
7	2.64	12.57	10.58	9.92	8.59	7.27	6.61
8	2.82	13.44	11.31	10.50	9.19	7.77	7.07
9	3.00	14.25	12.00	11.25	9.75	8.25	7.50
10	3.16	15.02	12.64	11.85	10.27	8.79	7.90
11	3.31	15.75	13.26	12.43	10.77	9.12	8.29
12	3.46	16.45	13.85	12.99	11.25	9.52	8.66
14	3.74	17.77	14.96	14.03	12.16	10.28	9.35
16	4.00	19.00	16.00	15.00	13.00	11.00	10.00
18	4.24	20.15	16.97	15.90	13.78	11.66	10.60
20	4.47	21.24	17.88	16.77	14.53	12.29	11.18
22	4.69	22.28	18.76	17.58	15.24	12.89	11.73
24	4.89	23.27	19.59	18.37	15.92	13.47	12.25
26	5.09	24.22	20.39	19.11	16.57	14.02	12.75
28	5.29	25.13	21.16	19.84	17.19	14.55	13.23
30	5.47	26.02	21.90	20.53	17.80	15.06	13.69
35	5.91	28.10	23.66	22.18	19.22	16.27	14.79
40	6.32	30.04	25.29	23.71	20.55	17.39	15.81
45	6.70	31.86	26.83	25.15	21.80	18.44	16.77
50	7.07	33.59	28.28	26.51	22.98	19.44	17.68
55	7.41	35.23	29.66	27.81	24.10	20.39	18.54
60	7.74	36.79	30.98	29.04	25.17	21.30	19.36
65	8.06	38.30	32.24	30.23	26.20	22.17	
70	8.36	39.74	33.46	31.37	27.19	23.00	
75	8.66	41.14	34.64	32.47	28.14	23.81	
80	8.94	42.49	35.77	33.54	29.06	24.59	
85	9.21	43.79	36.87	34.57	29.96	25.35	
90	9.48	45.06	37.94	35.47	30.83	26.08	
95	9.74	46.30	38.98	36.55	31.67	26.80	
100	10.00	47.50	40.00	37.50	32.50	27.50	
110	10.48	49.82	41.95	39.33	34.08	28.84	
120	10.95	52.03	43.81	41.07	35.60	30.12	
130	11.40	54.16	45.60	42.75	37.05	31.35	
140	11.83	56.20	47.32	44.37	38.47	32.54	
150	12.24	58.04	48.98	45.92	39.80	33.68	
160	12.64	60.04	50.59	47.43	41.10	34.78	
170	13.03	61.89	52.15	48.89	42.37	35.85	
180	13.41	63.70	53.66	50.31	43.60	36.89	
190	13.78	65.46	55.13	51.69	44.79	37.90	
200	14.14	67.17	56.56	53.03	45.96	38.89	

Comparison of English and French Counts of Cotton Yarn

English Counts	French Counts	English Counts	French Counts	English Counts	French Counts	English Counts	French Counts	English Counts	French Counts
1	0.847	17	14.40	46	38.96	78	66.07	150	127.05
2	1.693	18	15.25	48	40.66	80	67.76	160	135.52
3	2.540	19	16.09	50	42.35	82	69.45	170	143.99
4	3.388	20	16.94	52	44.04	84	71.15	180	152.46
5	4.235	22	18.63	54	45.74	86	72.84	190	160.93
6	5.082	24	20.33	56	47.43	88	74.54	200	169.40
7	5.929	26	22.02	58	49.13	90	76.23	210	177.87
8	6.776	28	23.72	60	50.82	92	77.92	220	186.34
9	7.623	30	25.41	62	52.51	94	79.62	230	194.81
10	8.470	32	27.10	64	54.21	96	81.31	240	203.28
11	9.313	34	28.80	66	55.90	98	83.01	250	211.75
12	10.16	36	30.49	68	57.00	100	84.70	260	220.22
13	11.01	38	32.19	70	59.29	110	93.17	270	228.69
14	11.86	40	33.88	72	60.98	120	101.64	280	237.16
15	12.70	42	35.57	74	62.68	130	110.11	290	245.63
16	13.55	44	37.27	76	64.37	140	118.58	300	254.10

Comparison of French and English Counts of Cotton Yarn

French Counts	English Counts	French Counts	English Counts	French Counts	English Counts	French Counts	English Counts	French Counts	English Counts
1	1.18	17	20.1	46	54.3	78	92.—	150	177.—
2	2.36	18	21.2	48	56.6	80	94.4	160	189.—
3	3.54	19	22.4	50	59.—	82	96.8	170	201.—
4	4.72	20	23.6	52	61.4	84	99.2	180	212.—
5	5.90	22	26.—	54	63.7	86	101.5	190	224.—
6	7.08	24	28.3	56	66.1	88	103.8	200	236.—
7	8.26	26	30.7	58	68.4	90	106.2	210	247.8
8	9.44	28	33.—	60	70.8	92	108.6	220	260.—
9	10.6	30	35.4	62	73.1	94	110.9	230	271.4
10	11.8	32	37.8	64	75.5	96	113.2	240	283.—
11	13.—	34	40.1	66	77.9	98	115.6	250	295.—
12	14.2	36	42.5	68	80.2	100	118.—	260	307.—
13	15.3	38	44.8	70	82.6	110	130.—	270	318.6
14	16.5	40	47.2	72	84.9	120	141.6	280	330.—
15	17.7	42	49.6	74	87.3	130	153.—	290	342.2
16	18.9	44	51.9	76	89.7	140	165.—	300	354.—

Yarn Table

For numbering cotton yarn by the weight in grains of 120 yards or 1 skein

120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn
1.	1,000.	.3	81.30	.6	56.82	.9	43.67	.2	35.46
2.	500.	.4	80.65	.7	56.50	23.	43.48	.3	35.34
3.	333.3	.5	80.00	.8	56.18	.1	43.29	.4	35.21
4.	250.0	.6	79.37	.9	55.87	.2	43.10	.5	35.09
5.	200.0	.7	78.74	18.	55.56	.3	42.92	.6	34.97
5.5	181.8	.8	78.12	.1	55.25	.4	42.74	.7	34.84
6.	166.7	.9	77.52	.2	54.95	.5	42.55	.8	34.72
6.5	153.8	13.	76.92	.3	54.64	.6	42.37	.9	34.60
7.	142.9	.1	76.34	.4	54.35	.7	42.19	29.	34.48
7.5	133.3	.2	75.76	.5	54.05	.8	42.02	.1	34.36
8.	125.0	.3	75.19	.6	53.76	.9	41.84	.2	34.25
.1	123.5	.4	74.63	.7	53.48	24.	41.67	.3	34.13
.2	122.0	.5	74.07	.8	53.19	.1	41.49	.4	34.01
.3	120.5	.6	73.53	.9	52.91	.2	41.32	.5	33.90
.4	119.0	.7	72.99	19.	52.63	.3	41.15	.6	33.78
.5	117.6	.8	72.46	.1	52.36	.4	40.98	.7	33.67
.6	116.3	.9	71.94	.2	52.08	.5	40.82	.8	33.56
.7	114.9	14.	71.43	.3	51.81	.6	40.65	.9	33.44
.8	113.6	.1	70.92	.4	51.55	.7	40.49	30.	33.33
.9	112.4	.2	70.42	.5	51.28	.8	40.32	.1	33.22
9.	111.1	.3	69.93	.6	51.02	.9	40.16	.2	33.11
.1	109.9	.4	69.44	.7	50.76	25.	40.00	.3	33.00
.2	108.7	.5	68.97	.8	50.51	.1	39.84	.4	32.89
.3	107.5	.6	68.49	.9	50.25	.2	39.68	.5	32.79
.4	106.4	.7	68.03	20.	50.00	.3	39.53	.6	32.68
.5	105.3	.8	67.57	.1	49.75	.4	39.37	.7	32.57
.6	104.2	.9	67.11	.2	49.50	.5	39.22	.8	32.47
.7	103.1	15.	66.67	.3	49.26	.6	39.06	.9	32.36
.8	102.0	.1	66.23	.4	49.02	.7	38.91	31.	32.26
.9	101.0	.2	65.79	.5	48.78	.8	38.76	.1	32.16
10.	100.0	.3	65.36	.6	48.54	.9	38.61	.2	32.05
.1	99.01	.4	64.94	.7	48.31	26.	38.46	.3	31.95
.2	98.04	.5	64.52	.8	48.08	.1	38.31	.4	31.85
.3	97.09	.6	64.10	.9	47.85	.2	38.17	.5	31.75
.4	96.15	.7	63.69	21.	47.62	.3	38.02	.6	31.65
.5	95.24	.8	63.29	.1	47.33	.4	37.88	.7	31.55
.6	94.34	.9	62.89	.2	47.17	.5	37.74	.8	31.45
.7	93.46	16.	62.50	.3	46.95	.6	37.59	.9	31.35
.8	92.59	.1	62.11	.4	46.73	.7	37.45	32.	31.25
.9	91.74	.2	61.73	.5	46.51	.8	37.31	.1	31.15
11.	90.91	.3	61.35	.6	46.30	.9	37.17	.2	31.06
.1	90.09	.4	60.98	.7	46.08	27.	37.04	.3	30.96
.2	89.29	.5	60.61	.8	45.87	.1	36.90	.4	30.86
.3	88.50	.6	60.24	.9	45.66	.2	36.77	.5	30.77
.4	87.72	.7	59.88	22.	45.45	.3	36.63	.6	30.67
.5	86.96	.8	59.52	.1	45.25	.4	36.50	.7	30.58
.6	86.21	.9	59.17	.2	45.05	.5	36.36	.8	30.49
.7	85.47	17.	58.82	.3	44.84	.6	36.23	.9	30.40
.8	84.75	.1	58.48	.4	44.64	.7	36.10	33.	30.30
.9	84.03	.2	58.14	.5	44.44	.8	35.97	.1	30.21
12.	83.33	.3	57.80	.6	44.25	.9	35.84	.2	30.12
.1	82.64	.4	57.47	.7	44.05	28.	35.71	.3	30.03
.2	81.97	.5	57.14	.8	43.86	.1	35.59	.4	29.94

Yarn Table — (Continued)

For numbering cotton yarn by the weight in grains of 120 yards or 1 skein

120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn
.5	29.85	.8	25.77	.1	22.68	.4	20.24	.7	18.28
.6	29.76	.9	25.71	.2	22.62	.5	20.20	.8	18.25
.7	29.67	39.	25.64	.3	22.57	.6	20.16	.9	18.21
.8	29.59	.1	25.58	.4	22.52	.7	20.12	55.	18.18
.9	29.50	.2	25.51	.5	22.47	.8	20.08	.1	18.15
34.	29.41	.3	25.45	.6	22.42	.9	20.04	.2	18.12
.1	29.33	.4	25.38	.7	22.37	50.	20.00	.3	18.08
.2	29.24	.5	25.32	.8	22.32	.1	19.96	.4	18.05
.3	29.15	.6	25.25	.9	22.27	.2	19.92	.5	18.02
.4	29.07	.7	25.19	45.	22.22	.3	19.88	.6	17.99
.5	28.99	.8	25.13	.1	22.17	.4	19.84	.7	17.95
.6	28.90	.9	25.06	.2	22.12	.5	19.80	.8	17.92
.7	28.82	40.	25.00	.3	22.08	.6	19.76	.9	17.89
.8	28.74	.1	24.94	.4	22.03	.7	19.72	56.	17.86
.9	28.65	.2	24.88	.5	21.98	.8	19.69	.1	17.83
35.	28.57	.3	24.81	.6	21.93	.9	19.65	.2	17.79
.1	28.49	.4	24.75	.7	21.88	51.	19.61	.3	17.76
.2	28.41	.5	24.69	.8	21.83	.1	19.57	.4	17.73
.3	28.33	.6	24.63	.9	21.79	.2	19.53	.5	17.70
.4	28.25	.7	24.57	46.	21.74	.3	19.49	.6	17.67
.5	28.17	.8	24.51	.1	21.69	.4	19.46	.7	17.64
.6	28.09	.9	24.45	.2	21.65	.5	19.42	.8	17.61
.7	28.01	41.	24.39	.3	21.60	.6	19.38	.9	17.57
.8	27.93	.1	24.33	.4	21.55	.7	19.34	57.	17.54
.9	27.86	.2	24.27	.5	21.51	.8	19.31	.1	17.51
36.	27.78	.3	24.21	.6	21.46	.9	19.27	.2	17.48
.1	27.70	.4	24.15	.7	21.41	52.	19.23	.3	17.45
.2	27.62	.5	24.10	.8	21.37	.1	19.19	.4	17.42
.3	27.55	.6	24.04	.9	21.32	.2	19.16	.5	17.39
.4	27.47	.7	23.98	47.	21.28	.3	19.12	.6	17.36
.5	27.40	.8	23.92	.1	21.23	.4	19.08	.7	17.33
.6	27.32	.9	23.87	.2	21.19	.5	19.05	.8	17.30
.7	27.25	42.	23.81	.3	21.14	.6	19.01	.9	17.27
.8	27.17	.1	23.75	.4	21.10	.7	18.98	58.	17.24
.9	27.10	.2	23.70	.5	21.05	.8	18.94	.1	17.21
37.	27.03	.3	23.64	.6	21.01	.9	18.90	.2	17.18
.1	26.95	.4	23.58	.7	20.96	53.	18.87	.3	17.15
.2	26.88	.5	23.53	.8	20.92	.1	18.83	.4	17.12
.3	26.81	.6	23.47	.9	20.88	.2	18.80	.5	17.09
.4	26.74	.7	23.42	48.	20.83	.3	18.76	.6	17.06
.5	26.67	.8	23.36	.1	20.79	.4	18.73	.7	17.04
.6	26.60	.9	23.31	.2	20.75	.5	18.69	.8	17.01
.7	26.53	43.	23.26	.3	20.70	.6	18.66	.9	16.98
.8	26.46	.1	23.20	.4	20.66	.7	18.62	59.	16.95
.9	26.39	.2	23.15	.5	20.62	.8	18.59	.1	16.92
38.	26.32	.3	23.09	.6	20.57	.9	18.55	.2	16.89
.1	26.25	.4	23.04	.7	20.53	54.	18.52	.3	16.86
.2	26.18	.5	22.99	.8	20.49	.1	18.48	.4	16.84
.3	26.11	.6	22.94	.9	20.45	.2	18.45	.5	16.81
.4	26.04	.7	22.88	49.	20.41	.3	18.42	.6	16.78
.5	25.97	.8	22.83	.1	20.37	.4	18.38	.7	16.75
.6	25.91	.9	22.78	.2	20.33	.5	18.35	.8	16.72
.7	25.84	44.	22.73	.3	20.28	.6	18.32	.9	16.69

Yarn Table — (Continued)

For numbering cotton yarn by the weight in grains of 120 yards or 1 skein

120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn
60.	16.67	.3	15.31	.6	14.16	.9	13.18	.2	12.32
.1	16.64	.4	15.29	.7	14.14	76.	13.16	.3	12.30
.2	16.61	.5	15.27	.8	14.12	.1	13.14	.4	12.29
.3	16.58	.6	15.24	.9	14.10	.2	13.12	.5	12.27
.4	16.56	.7	15.22	71.	14.08	.3	13.11	.6	12.25
.5	16.53	.8	15.20	.1	14.06	.4	13.09	.7	12.24
.6	16.50	.9	15.17	.2	14.04	.5	13.07	.8	12.22
.7	16.47	66.	15.15	.3	14.03	.6	13.05	.9	12.21
.8	16.45	.1	15.13	.4	14.01	.7	13.04	82.	12.20
.9	16.42	.2	15.11	.5	13.99	.8	13.02	.1	12.18
61.	16.39	.3	15.08	.6	13.97	.9	13.00	.2	12.17
.1	16.37	.4	15.06	.7	13.95	77.	12.99	.3	12.15
.2	16.34	.5	15.04	.8	13.93	.1	12.97	.4	12.14
.3	16.31	.6	15.02	.9	13.91	.2	12.95	.5	12.12
.4	16.29	.7	14.99	72.	13.89	.3	12.94	.6	12.11
.5	16.26	.8	14.97	.1	13.87	.4	12.92	.7	12.09
.6	16.23	.9	14.95	.2	13.85	.5	12.90	.8	12.08
.7	16.21	67.	14.93	.3	13.83	.6	12.89	.9	12.06
.8	16.19	.1	14.90	.4	13.81	.7	12.87	83.	12.05
.9	16.16	.2	14.88	.5	13.79	.8	12.85	.1	12.03
62.	16.13	.3	14.86	.6	13.77	.9	12.84	.2	12.02
.1	16.10	.4	14.84	.7	13.76	78.	12.82	.3	12.00
.2	16.08	.5	14.81	.8	13.74	.1	12.80	.4	11.99
.3	16.05	.6	14.79	.9	13.72	.2	12.79	.5	11.98
.4	16.03	.7	14.77	73.	13.70	.3	12.77	.6	11.96
.5	16.00	.8	14.75	.1	13.68	.4	12.76	.7	11.95
.6	15.97	.9	14.73	.2	13.66	.5	12.74	.8	11.93
.7	15.95	68.	14.71	.3	13.64	.6	12.72	.9	11.92
.8	15.92	.1	14.68	.4	13.62	.7	12.71	84.	11.90
.9	15.90	.2	14.66	.5	13.61	.8	12.69	.1	11.89
63.	15.87	.3	14.64	.6	13.59	.9	12.67	.2	11.88
.1	15.85	.4	14.62	.7	13.57	79.	12.66	.3	11.86
.2	15.83	.5	14.60	.8	13.55	.1	12.64	.4	11.85
.3	15.80	.6	14.58	.9	13.53	.2	12.63	.5	11.83
.4	15.77	.7	14.56	74.	13.51	.3	12.61	.6	11.82
.5	15.75	.8	14.53	.1	13.50	.4	12.59	.7	11.81
.6	15.72	.9	14.51	.2	13.48	.5	12.58	.8	11.79
.7	15.70	69.	14.49	.3	13.46	.6	12.56	.9	11.78
.8	15.67	.1	14.47	.4	13.44	.7	12.55	85.	11.76
.9	15.65	.2	14.45	.5	13.42	.8	12.53	.1	11.75
64.	15.62	.3	14.43	.6	13.40	.9	12.52	.2	11.74
.1	15.60	.4	14.41	.7	13.39	80.	12.50	.3	11.72
.2	15.58	.5	14.39	.8	13.37	.1	12.48	.4	11.71
.3	15.55	.6	14.37	.9	13.35	.2	12.47	.5	11.70
.4	15.53	.7	14.35	75.	13.33	.3	12.45	.6	11.68
.5	15.50	.8	14.33	.1	13.32	.4	12.44	.7	11.67
.6	15.48	.9	14.31	.2	13.30	.5	12.42	.8	11.66
.7	15.46	70.	14.29	.3	13.28	.6	12.41	.9	11.64
.8	15.43	.1	14.27	.4	13.26	.7	12.39	86.	11.63
.9	15.41	.2	14.25	.5	13.25	.8	12.38	.1	11.61
65.	15.38	.3	14.22	.6	13.23	.9	12.36	.2	11.60
.1	15.36	.4	14.20	.7	13.21	81.	12.35	.3	11.59
.2	15.34	.5	14.18	.8	13.19	.1	12.33	.4	11.57

Yarn Table — (Continued)

For numbering cotton yarn by the weight in grains of 120 yards or 1 skein

120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn
.5	11.56	.8	10.89	.1	10.30	.4	9.77	.7	9.29
.6	11.55	.9	10.88	.2	10.29	.5	9.76	.8	9.28
.7	11.53	92.	10.87	.3	10.28	.6	9.75	.9	9.27
.8	11.52	.1	10.86	.4	10.27	.7	9.74	108.	9.26
.9	11.51	.2	10.85	.5	10.26	.8	9.73	.1	9.25
87.	11.49	.3	10.83	.6	10.25	.9	9.72	.2	9.24
.1	11.48	.4	10.82	.7	10.24	103.	9.71	.3	9.23
.2	11.47	.5	10.81	.8	10.22	.1	9.70	.4	9.23
.3	11.45	.6	10.80	.9	10.21	.2	9.69	.5	9.22
.4	11.44	.7	10.79	98.	10.20	.3	9.68	.6	9.21
.5	11.43	.8	10.78	.1	10.19	.4	9.67	.7	9.20
.6	11.42	.9	10.76	.2	10.18	.5	9.66	.8	9.19
.7	11.40	93.	10.75	.3	10.17	.6	9.65	.9	9.18
.8	11.39	.1	10.74	.4	10.16	.7	9.64	109.	9.17
.9	11.38	.2	10.73	.5	10.15	.8	9.63	.2	9.16
88.	11.36	.3	10.72	.6	10.14	.9	9.62	.4	9.14
.1	11.35	.4	10.71	.7	10.13	104.	9.62	.6	9.12
.2	11.34	.5	10.70	.8	10.12	.1	9.61	.8	9.11
.3	11.33	.6	10.68	.9	10.11	.2	9.60	110.	9.09
.4	11.31	.7	10.67	99.	10.10	.3	9.59	.2	9.07
.5	11.30	.8	10.66	.1	10.09	.4	9.58	.4	9.06
.6	11.29	.9	10.65	.2	10.08	.5	9.57	.6	9.04
.7	11.27	94.	10.64	.3	10.07	.6	9.56	.8	9.03
.8	11.26	.1	10.63	.4	10.06	.7	9.55	111.	9.01
.9	11.25	.2	10.62	.5	10.05	.8	9.54	.2	8.99
89.	11.24	.3	10.60	.6	10.04	.9	9.53	.4	8.98
.1	11.22	.4	10.59	.7	10.03	105.	9.52	.6	8.96
.2	11.21	.5	10.58	.8	10.02	.1	9.51	.8	8.94
.3	11.20	.6	10.57	.9	10.01	.2	9.51	112.	8.93
.4	11.19	.7	10.56	100.	10.00	.3	9.50	.2	8.91
.5	11.17	.8	10.55	.1	9.99	.4	9.49	.4	8.90
.6	11.16	.9	10.54	.2	9.98	.5	9.48	.6	8.88
.7	11.15	95.	10.53	.3	9.97	.6	9.47	.8	8.87
.8	11.14	.1	10.52	.4	9.96	.7	9.46	113.	8.85
.9	11.12	.2	10.50	.5	9.95	.8	9.45	.2	8.83
90.	11.11	.3	10.49	.6	9.94	.9	9.44	.4	8.82
.1	11.10	.4	10.48	.7	9.93	106.	9.43	.6	8.80
.2	11.09	.5	10.47	.8	9.92	.1	9.43	.8	8.79
.3	11.07	.6	10.46	.9	9.91	.2	9.42	114.	8.77
.4	11.06	.7	10.45	101.	9.90	.3	9.41	.2	8.76
.5	11.05	.8	10.44	.1	9.89	.4	9.40	.4	8.74
.6	11.04	.9	10.43	.2	9.88	.5	9.39	.6	8.73
.7	11.03	96.	10.42	.3	9.87	.6	9.38	.8	8.71
.8	11.01	.1	10.41	.4	9.86	.7	9.37	115.	8.70
.9	11.00	.2	10.40	.5	9.85	.8	9.36	.2	8.68
91.	10.99	.3	10.38	.6	9.84	.9	9.35	.4	8.67
.1	10.98	.4	10.37	.7	9.83	107.	9.35	.6	8.65
.2	10.96	.5	10.36	.8	9.82	.1	9.34	.8	8.64
.3	10.95	.6	10.35	.9	9.81	.2	9.33	116.	8.62
.4	10.94	.7	10.34	102.	9.80	.3	9.32	.2	8.61
.5	10.93	.8	10.33	.1	9.79	.4	9.31	.4	8.59
.6	10.92	.9	10.32	.2	9.78	.5	9.30	.6	8.58
.7	10.91	97.	10.31	.3	9.78	.6	9.29	.8	8.56

Yarn Table — (Continued)

For numbering cotton yarn by the weight in grains of 120 yards or 1 skein

120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn
117.	8.55	.5	7.33	163.	6.13	209.	4.78	274.	3.65
.2	8.53	137.	7.30	.5	6.12	210.	4.76	276.	3.62
.4	8.52	.5	7.27	164.	6.10	211.	4.74	278.	3.60
.6	8.50	138.	7.25	.5	6.08	212.	4.72	280.	3.57
.8	8.49	.5	7.22	165.	6.06	213.	4.69	282.	3.55
118.	8.47	139.	7.19	.5	6.04	214.	4.67	284.	3.52
.2	8.46	.5	7.17	166.	6.02	215.	4.65	286.	3.50
.4	8.45	140.	7.14	.5	6.01	216.	4.63	288.	3.47
.6	8.43	.5	7.12	167.	5.99	217.	4.61	290.	3.45
.8	8.42	141.	7.09	.5	5.97	218.	4.59	292.	3.42
119.	8.40	.5	7.07	168.	5.95	219.	4.57	294.	3.40
.2	8.39	142.	7.04	.5	5.93	220.	4.55	296.	3.38
.4	8.38	.5	7.02	169.	5.92	221.	4.52	298.	3.36
.6	8.36	143.	6.99	.5	5.90	222.	4.50	300.	3.33
.8	8.35	.5	6.97	170.	5.88	223.	4.48	302.	3.31
120.	8.33	144.	6.94	171.	5.85	224.	4.46	304.	3.29
.2	8.32	.5	6.92	172.	5.81	225.	4.44	306.	3.27
.4	8.31	145.	6.90	173.	5.78	226.	4.42	308.	3.25
.6	8.29	.5	6.87	174.	5.75	227.	4.41	310.	3.23
.8	8.28	146.	6.85	175.	5.71	228.	4.39	312.	3.21
121.	8.26	.5	6.83	176.	5.68	229.	4.37	314.	3.18
.4	8.24	147.	6.80	177.	5.65	230.	4.35	316.	3.17
.6	8.22	.5	6.78	178.	5.62	231.	4.33	318.	3.14
.8	8.21	148.	6.76	179.	5.59	232.	4.31	320.	3.12
122.	8.20	.5	6.73	180.	5.56	233.	4.29	322.	3.11
.5	8.16	149.	6.71	181.	5.52	234.	4.27	324.	3.09
123.	8.13	.5	6.69	182.	5.49	235.	4.26	326.	3.07
.5	8.10	150.	6.67	183.	5.46	236.	4.24	328.	3.05
124.	8.06	.5	6.64	184.	5.43	237.	4.22	330.	3.03
.5	8.03	151.	6.62	185.	5.41	238.	4.20	332.	3.01
125.	8.00	.5	6.60	186.	5.38	239.	4.18	334.	2.99
.5	7.97	152.	6.58	187.	5.35	240.	4.17	336.	2.98
126.	7.94	.5	6.56	188.	5.32	241.	4.15	338.	2.96
.5	7.91	153.	6.54	189.	5.29	242.	4.13	340.	2.94
127.	7.87	.5	6.51	190.	5.26	243.	4.12	342.	2.92
.5	7.84	154.	6.49	191.	5.24	244.	4.10	344.	2.91
128.	7.81	.5	6.47	192.	5.21	245.	4.08	346.	2.89
.5	7.78	155.	6.45	193.	5.18	246.	4.07	348.	2.87
129.	7.75	.5	6.43	194.	5.15	247.	4.05	350.	2.86
.5	7.72	156.	6.41	195.	5.13	248.	4.03	352.	2.84
130.	7.69	.5	6.39	196.	5.10	249.	4.02	354.	2.82
.5	7.66	157.	6.36	197.	5.08	250.	4.00	356.	2.81
131.	7.63	.5	6.35	198.	5.05	252.	3.97	358.	2.79
.5	7.60	158.	6.33	199.	5.03	254.	3.94	360.	2.78
132.	7.58	.5	6.31	200.	5.00	256.	3.91	362.	2.76
.5	7.55	159.	6.29	201.	4.98	258.	3.88	364.	2.75
133.	7.52	.5	6.27	202.	4.95	260.	3.85	366.	2.73
.5	7.49	160.	6.25	203.	4.93	262.	3.82	368.	2.72
134.	7.46	.5	6.23	204.	4.90	264.	3.79	370.	2.70
.5	7.43	161.	6.21	205.	4.88	266.	3.76	372.	2.69
135.	7.41	.5	6.19	206.	4.85	268.	3.73	374.	2.67
.5	7.38	162.	6.17	207.	4.83	270.	3.70	376.	2.66
136.	7.35	.5	6.15	208.	4.81	272.	3.68	378.	2.65

Yarn Table — (Concluded)

For numbering cotton yarn by the weight in grains of 120 yards or 1 skein

120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn	120 Yards Weight (Grains)	Number of Yarn
380.	2.63	450.	2.22	525.	1.90	600.	1.67	750.	1.33
382.	2.62	455.	2.20	530.	1.89	610.	1.64	760.	1.32
385.	2.60	460.	2.17	535.	1.87	620.	1.61	770.	1.30
390.	2.56	465.	2.15	540.	1.85	630.	1.59	780.	1.28
395.	2.53	470.	2.13	545.	1.83	640.	1.56	790.	1.27
400.	2.50	475.	2.11	550.	1.82	650.	1.54	800.	1.25
405.	2.47	480.	2.08	555.	1.80	660.	1.52	820.	1.22
410.	2.44	485.	2.06	560.	1.79	670.	1.49	840.	1.19
415.	2.41	490.	2.04	565.	1.77	680.	1.47	860.	1.16
420.	2.38	495.	2.02	570.	1.75	690.	1.45	880.	1.14
425.	2.35	500.	2.00	575.	1.74	700.	1.43	900.	1.11
430.	2.33	505.	1.98	580.	1.72	710.	1.41	925.	1.08
435.	2.30	510.	1.96	585.	1.71	720.	1.39	950.	1.05
440.	2.27	515.	1.94	590.	1.69	730.	1.37	975.	1.03
445.	2.25	520.	1.92	595.	1.68	740.	1.35	1,000.	1.00

Yarn Number

To find the yarn number or count:

$$\frac{\text{Number of yards in Sample} \times \text{Grains in a Pound}}{\text{Weight of sample in grains} \times \text{standard}} = \text{Yarn Number}$$

Or for cotton yarn using a 120 yard skein:

$$\frac{120 \times 7,000}{\text{Weight of sample} \times 840} = \frac{1,000}{\text{Weight of sample in grains}} = \text{Yarn Number}$$

Comparative Yarn Tables

Spun Silk and Cotton Scale	Yards per Pound	Yards per Ounce	Scale in Legal Deniers	Linen or Wool (Cut System)	Worsted Scale	Woolen Run Scale
1	840	52½	5,314.915	2.800	1½	.525
2	1,680	105	2,657.457	5.600	3	1.05
3	2,520	157½	1,771.638	8.400	4½	1.58
4	3,360	210	1,328.729	11.200	6	2.10
5	4,200	262½	1,062.983	14.000	7½	2.63
6	5,040	315	885.819	16.800	9	3.15
7	5,880	367½	759.274	19.600	10½	3.68
8	6,720	420	664.364	22.400	12	4.20
9	7,560	472½	590.546	25.200	13½	4.73
10	8,400	525	531.491	28.000	15	5.25
11	9,240	577½	483.172	30.800	16½	5.78
12	10,080	630	442.910	33.600	18	6.30
13	10,920	682½	408.839	36.400	19½	6.83
14	11,760	735	379.637	39.200	21	7.35
15	12,600	787½	354.328	42.000	22½	7.88
16	13,440	840	332.182	44.800	24	8.40
17	14,280	892½	312.642	47.600	25½	8.93
18	15,120	945	295.273	50.400	27	9.45
19	15,960	997½	279.732	53.200	28½	9.98
20	16,800	1,050	265.746	56.000	30	10.50
21	17,640	1,102½	253.091	58.800	31½	11.03
22	18,480	1,155	241.586	61.600	33	11.55
23	19,320	1,207½	231.083	64.400	34½	12.08
24	20,160	1,260	221.455	67.200	36	12.60
25	21,000	1,312½	212.597	70.000	37½	13.13
26	21,840	1,365	204.420	72.800	39	13.65
27	22,680	1,417½	196.849	75.600	40½	14.18
28	23,520	1,470	189.818	78.400	42	14.70
29	24,360	1,522½	183.273	81.200	43½	15.23
30	25,200	1,575	177.164	84.000	45	15.75
31	26,040	1,627½	171.449	86.800	46½	16.28
32	26,880	1,680	166.091	89.600	48	16.80
33	27,720	1,732½	161.057	92.400	49½	17.33
34	28,560	1,785	156.321	95.200	51	17.85
35	29,400	1,837½	151.855	98.000	52½	18.38
36	30,240	1,890	147.637	100.800	54	18.90
37	31,080	1,942½	143.646	103.600	55½	19.43
38	31,920	1,995	139.866	106.400	57	19.95
39	32,760	2,047½	136.280	109.200	58½	20.48
40	33,600	2,100	132.873	112.000	60	21.00
41	34,440	2,152½	129.632	114.800	61½	21.53
42	35,280	2,205	126.546	117.600	63	22.05
43	36,120	2,257½	123.603	120.400	64½	22.58
44	36,960	2,310	120.793	123.200	66	23.10
45	37,800	2,362½	118.109	126.000	67½	23.62
46	38,640	2,415	115.542	128.800	69	24.15
47	39,480	2,467½	113.083	131.600	70½	24.68
48	40,320	2,520	110.727	134.400	72	25.20
49	41,160	2,572½	108.468	137.200	73½	-
50	42,000	2,625	106.298	140.000	75	-

Comparative Yarn Tables — (Concluded)

Spun Silk and Cotton Scale	Yards per Pound	Yards per Ounce	Scale in Legal Deniers	Linen or Wool (Cut System)	Worsted Scale
52	43,680	2,730	102.210	145.600	78
54	45,360	2,835	98.425	151.200	81
56	47,040	2,940	94.909	156.800	84
58	48,720	3,045	91.637	162.400	87
60	50,400	3,150	88.582	168.000	90
62	52,080	3,255	85.725	173.600	93
64	53,760	3,360	83.045	179.200	96
66	55,440	3,465	80.529	184.800	99
68	57,120	3,570	78.161	190.400	102
70	58,800	3,675	75.927	196.000	105
72	60,480	3,780	73.818	201.600	108
74	62,160	3,885	71.823	207.200	111
76	63,840	3,990	69.933	212.800	114
78	65,520	4,095	68.140	218.400	117
80	67,200	4,200	66.436	224.000	120
90	75,600	4,725	59.055	252.000	135
100	84,000	5,250	53.149	280.000	150
110	92,400	5,775	48.317	308.000	—
120	100,800	6,300	44.291	336.000	—
130	109,200	6,825	40.884	364.000	—
140	117,600	7,350	37.964	392.000	—
150	126,000	7,875	35.433	420.000	—
160	134,400	8,400	33.218	448.000	—
170	142,800	8,925	31.264	476.000	—
180	151,200	9,450	29.527	504.000	—
190	159,600	9,975	27.973	532.000	—
200	168,000	10,500	26.575	560.000	—
225	189,000	11,812½	23.622	630.000	—
250	210,000	13,125	21.260	700.000	—
275	231,000	14,437½	19.327	770.000	—
300	252,000	15,750	17.716	840.000	—
325	273,000	17,062½	16.354	910.000	—
350	294,000	18,375	15.186	980.000	—
375	315,000	19,687½	14.173	1,050.000	—
400	336,000	21,000	13.287	1,120.000	—
425	357,000	22,312½	12.506	1,190.000	—
450	378,000	23,625	11.811	1,260.000	—
475	399,000	24,937½	11.189	1,330.000	—
500	420,000	26,250	10.630	1,400.000	—
525	441,000	27,562½	10.124	1,470.000	—
550	462,000	28,875	9.664	1,540.000	—
575	483,000	30,187½	9.244	1,610.000	—
600	504,000	31,500	8.858	1,680.000	—

Warper Production Calculation

To find pounds of production multiply the yards warped per minute by the multiplier opposite the number of yarn warped, and the product by the hours of operation times the number of ends. Example: To find the product of a warper running 52 yards per minute, on No. 18 yarn, with 410 ends on beam, for 40 hours (actual running time), $52 \times .00397 \times 410 \times 40 = 3385.6$.

Number of Yarn	Multipliers	Number of Yarn	Multipliers	Number of Yarn	Multipliers
6	.01190	27	.00265	48	.00149
7	.01020	28	.00255	49	.00146
8	.00893	29	.00246	50	.00143
9	.00794	30	.00238	52	.00137
10	.00714	31	.00230	54	.00132
11	.00649	32	.00223	56	.00127
12	.00595	33	.00213	58	.00123
13	.00549	34	.00210	60	.00119
14	.00510	35	.00204	62	.00115
15	.00476	36	.00198	64	.00112
16	.00446	37	.00193	66	.00108
17	.00420	38	.00188	68	.00105
18	.00397	39	.00183	70	.00102
19	.00376	40	.00179	75	.00095
20	.00357	41	.00174	80	.00089
21	.00340	42	.00170	85	.00084
22	.00325	43	.00166	90	.00079
23	.00311	44	.00162	95	.00075
24	.00298	45	.00159	100	.00071
25	.00286	46	.00155		
26	.00275	47	.00152		

Table for Use in Converting Linear Yards into Square Yards

Bureau of Census

The following table is made out in parallel columns. The first column refers to the width, in inches, of the woven products while the opposite figure represents the "equivalent" in square yards.

To convert linear yards to square yards, take the "equivalent" opposite the number representing the width in inches and multiply by the number of linear yards. Example: To convert 1,386,520 linear yards of cloth $38\frac{1}{2}$ inches wide into square yards — the "equivalent" of $38\frac{1}{2}$ inches is 1.069, which multiplied by 1,386,520 gives 1,482,190 square yards.

Width in Inches	Equiv- alent Square Yards	Width in Inches	Equiv- alent Square Yards	Width in Inches	Equiv- alent Square Yards	Width in Inches	Equiv- alent Square Yards	Width in Inches	Equiv- alent Square Yards	Width in Inches	Equiv- alent Square Yards
12½	.347	28½	.792	44½	1.236	60½	1.681	76½	2.125	92½	2.569
13	.361	29	.806	45	1.250	61	1.694	77	2.139	93	2.583
13½	.375	29½	.819	45½	1.264	61½	1.708	77½	2.163	93½	2.597
14	.389	30	.833	46	1.278	62	1.722	78	2.167	94	2.611
14½	.403	30½	.847	46½	1.292	62½	1.736	78½	2.181	94½	2.625
15	.417	31	.861	47	1.306	63	1.750	79	2.194	95	2.639
15½	.431	31½	.875	47½	1.319	63½	1.764	79½	2.208	95½	2.653
16	.444	32	.889	48	1.333	64	1.778	80	2.222	96	2.667
16½	.458	32½	.903	48½	1.347	64½	1.792	80½	2.236	96½	2.681
17	.472	33	.917	49	1.361	65	1.806	81	2.250	97	2.694
17½	.486	33½	.931	49½	1.375	65½	1.819	81½	2.264	97½	2.708
18	.500	34	.944	50	1.389	66	1.833	82	2.278	98	2.722
18½	.514	34½	.958	50½	1.403	66½	1.847	82½	2.292	98½	2.736
19	.528	35	.972	51	1.417	67	1.861	83	2.306	99	2.750
19½	.542	35½	.986	51½	1.431	67½	1.875	83½	2.319	99½	2.764
20	.556	36	1.000	52	1.444	68	1.889	84	2.333	100	2.778
20½	.569	36½	1.014	52½	1.458	68½	1.903	84½	2.347	100½	2.792
21	.583	37	1.028	53	1.472	69	1.917	85	2.361	101	2.806
21½	.597	37½	1.042	53½	1.486	69½	1.931	85½	2.375	101½	2.819
22	.611	38	1.056	54	1.500	70	1.944	86	2.389	102	2.833
22½	.625	38½	1.069	54½	1.514	70½	1.958	86½	2.403	102½	2.847
23	.639	39	1.083	55	1.528	71	1.972	87	2.417	103	2.861
23½	.653	39½	1.097	55½	1.542	71½	1.986	87½	2.431	103½	2.875
24	.667	40	1.111	56	1.556	72	2.000	88	2.444	104	2.889
24½	.681	40½	1.125	56½	1.569	72½	2.014	88½	2.458	104½	2.903
25	.694	41	1.139	57	1.583	73	2.028	89	2.472	105	2.917
25½	.708	41½	1.153	57½	1.597	73½	2.042	89½	2.486	105½	2.931
26	.722	42	1.167	58	1.611	74	2.056	90	2.500	106	2.944
26½	.736	42½	1.181	58½	1.625	74½	2.069	90½	2.514	106½	2.958
27	.750	43	1.194	59	1.639	75	2.083	91	2.528	107	2.972
27½	.764	43½	1.208	59½	1.653	75½	2.097	91½	2.542	107½	2.986
28	.778	44	1.222	60	1.667	76	2.111	92	2.556	108	3.000

Yards of Cloth per Loom per Hour

No allowance for stops

PICKS PER INCH	PICKS PER MINUTE										
	100	105	110	115	120	125	130	135	140	145	150
20	8.33	8.75	9.17	9.58	10.00	10.42	10.83	11.25	11.67	12.08	12.50
22	7.58	7.95	8.33	8.71	9.09	9.47	9.85	10.23	10.61	10.98	11.36
24	6.94	7.29	7.64	7.99	8.33	8.68	9.03	9.37	9.72	10.07	10.42
26	6.41	6.73	7.05	7.37	7.69	8.01	8.33	8.65	8.97	9.29	9.62
28	5.95	6.25	6.55	6.85	7.14	7.44	7.74	8.04	8.33	8.63	8.93
30	5.56	5.83	6.11	6.39	6.67	6.94	7.22	7.50	7.78	8.06	8.33
32	5.21	5.47	5.73	5.99	6.25	6.51	6.77	7.03	7.29	7.55	7.81
34	4.90	5.15	5.39	5.64	5.88	6.13	6.37	6.62	6.86	7.11	7.35
36	4.63	4.86	5.09	5.32	5.56	5.79	6.02	6.25	6.48	6.71	6.94
38	4.39	4.61	4.82	5.04	5.26	5.48	5.70	5.92	6.14	6.36	6.58
40	4.17	4.37	4.58	4.79	5.00	5.21	5.42	5.63	5.83	6.04	6.25
42	3.97	4.17	4.37	4.56	4.76	4.96	5.16	5.36	5.56	5.75	5.95
44	3.79	3.98	4.17	4.36	4.55	4.73	4.92	5.11	5.30	5.49	5.68
46	3.62	3.80	3.99	4.17	4.35	4.53	4.71	4.89	5.07	5.25	5.43
48	3.47	3.65	3.82	3.99	4.17	4.34	4.51	4.69	4.86	5.03	5.21
50	3.33	3.50	3.67	3.83	4.00	4.17	4.33	4.50	4.67	4.83	5.00
52	3.21	3.37	3.53	3.69	3.85	4.01	4.17	4.33	4.49	4.65	4.81
54	3.09	3.24	3.40	3.55	3.70	3.86	4.01	4.17	4.32	4.48	4.63
56	2.98	3.13	3.27	3.42	3.57	3.72	3.87	4.02	4.17	4.32	4.46
58	2.87	3.02	3.16	3.30	3.45	3.59	3.74	3.88	4.02	4.17	4.31
60	2.78	2.92	3.06	3.19	3.33	3.47	3.61	3.75	3.89	4.03	4.17
62	2.69	2.82	2.96	3.09	3.23	3.36	3.49	3.63	3.76	3.90	4.03
64	2.60	2.73	2.86	2.99	3.13	3.26	3.39	3.52	3.65	3.78	3.91
66	2.53	2.65	2.78	2.90	3.03	3.16	3.28	3.41	3.54	3.66	3.79
68	2.45	2.57	2.70	2.82	2.94	3.06	3.19	3.31	3.43	3.55	3.68
70	2.38	2.50	2.62	2.74	2.86	2.98	3.10	3.21	3.33	3.45	3.57
72	2.31	2.43	2.55	2.66	2.78	2.89	3.01	3.13	3.24	3.36	3.47
74	2.25	2.36	2.48	2.59	2.70	2.82	2.93	3.04	3.15	3.27	3.38
76	2.19	2.30	2.41	2.52	2.63	2.74	2.85	2.96	3.07	3.18	3.29
78	2.14	2.24	2.35	2.46	2.56	2.67	2.78	2.88	2.99	3.10	3.21
80	2.08	2.19	2.29	2.40	2.50	2.60	2.71	2.81	2.92	3.02	3.13
82	2.03	2.13	2.24	2.34	2.44	2.54	2.64	2.74	2.85	2.95	3.05
84	1.98	2.08	2.18	2.28	2.38	2.48	2.58	2.68	2.78	2.88	2.98
86	1.94	2.03	2.13	2.23	2.33	2.42	2.52	2.62	2.71	2.81	2.91
88	1.89	1.99	2.08	2.18	2.27	2.37	2.46	2.56	2.65	2.75	2.84
90	1.85	1.94	2.04	2.13	2.22	2.31	2.41	2.50	2.59	2.69	2.78
92	1.81	1.90	1.99	2.08	2.17	2.26	2.36	2.45	2.54	2.63	2.72
94	1.77	1.86	1.95	2.04	2.13	2.22	2.30	2.39	2.48	2.57	2.66
96	1.74	1.82	1.91	2.00	2.08	2.17	2.26	2.34	2.43	2.52	2.60
98	1.70	1.79	1.87	1.96	2.04	2.13	2.21	2.30	2.38	2.47	2.55
100	1.67	1.75	1.83	1.92	2.00	2.08	2.17	2.25	2.33	2.42	2.50

Yards of Cloth per Loom per Hour — (Continued)

No allowance for stops

PICKS PER INCH	PICKS PER MINUTE										
	155	160	165	170	175	180	185	190	195	200	205
20	12.92	13.33	13.75	14.17	14.58	15.00	15.42	15.83	16.25	16.67	17.08
22	11.74	12.12	12.50	12.88	13.26	13.64	14.02	14.39	14.77	15.15	15.53
24	10.76	11.11	11.46	11.81	12.15	12.50	12.85	13.19	13.54	13.89	14.24
26	9.94	10.26	10.58	10.90	11.22	11.54	11.86	12.18	12.50	12.82	13.14
28	9.23	9.52	9.82	10.12	10.42	10.71	11.01	11.31	11.61	11.90	12.20
30	8.61	8.89	9.17	9.44	9.72	10.00	10.28	10.55	10.83	11.11	11.39
32	8.07	8.33	8.59	8.85	9.11	9.37	9.64	9.90	10.16	10.42	10.68
34	7.60	7.84	8.09	8.33	8.58	8.82	9.07	9.31	9.56	9.80	10.05
36	7.18	7.41	7.64	7.87	8.10	8.33	8.56	8.80	9.03	9.26	9.49
38	6.80	7.02	7.24	7.46	7.68	7.89	8.11	8.33	8.55	8.77	8.99
40	6.46	6.67	6.87	7.08	7.29	7.50	7.71	7.92	8.13	8.33	8.54
42	6.15	6.35	6.55	6.75	6.94	7.14	7.34	7.54	7.74	7.94	8.13
44	5.87	6.06	6.25	6.44	6.63	6.82	7.01	7.20	7.39	7.58	7.77
46	5.62	5.80	5.98	6.16	6.34	6.52	6.70	6.88	7.07	7.25	7.43
48	5.38	5.56	5.73	5.90	6.08	6.25	6.42	6.60	6.77	6.94	7.12
50	5.17	5.33	5.50	5.67	5.83	6.00	6.17	6.33	6.50	6.67	6.83
52	4.97	5.13	5.29	5.45	5.61	5.77	5.93	6.09	6.25	6.41	6.57
54	4.78	4.94	5.09	5.25	5.40	5.56	5.71	5.86	6.02	6.17	6.33
56	4.61	4.76	4.91	5.06	5.21	5.36	5.51	5.65	5.80	5.95	6.10
58	4.45	4.60	4.74	4.88	5.03	5.17	5.32	5.46	5.60	5.75	5.89
60	4.31	4.44	4.58	4.72	4.86	5.00	5.14	5.28	5.42	5.56	5.69
62	4.17	4.30	4.44	4.57	4.70	4.84	4.97	5.11	5.24	5.38	5.51
64	4.04	4.17	4.30	4.43	4.56	4.69	4.82	4.95	5.08	5.21	5.34
66	3.91	4.04	4.17	4.29	4.42	4.55	4.67	4.80	4.92	5.05	5.18
68	3.80	3.92	4.04	4.17	4.29	4.41	4.53	4.66	4.78	4.90	5.02
70	3.69	3.81	3.93	4.05	4.17	4.29	4.40	4.52	4.64	4.76	4.88
72	3.59	3.70	3.82	3.94	4.05	4.17	4.28	4.40	4.51	4.63	4.75
74	3.49	3.60	3.72	3.83	3.94	4.05	4.17	4.28	4.39	4.50	4.62
76	3.40	3.51	3.62	3.73	3.84	3.95	4.06	4.17	4.28	4.39	4.50
78	3.31	3.42	3.53	3.63	3.74	3.85	3.95	4.06	4.17	4.27	4.38
80	3.23	3.33	3.44	3.54	3.65	3.75	3.85	3.96	4.06	4.17	4.27
82	3.15	3.25	3.35	3.46	3.56	3.66	3.76	3.86	3.96	4.07	4.17
84	3.08	3.17	3.27	3.37	3.47	3.57	3.66	3.77	3.87	3.97	4.07
86	3.00	3.10	3.20	3.29	3.39	3.49	3.58	3.68	3.78	3.88	3.97
88	2.94	3.03	3.13	3.22	3.31	3.41	3.50	3.60	3.69	3.79	3.88
90	2.87	2.96	3.06	3.15	3.24	3.33	3.43	3.52	3.61	3.70	3.80
92	2.81	2.90	2.99	3.08	3.17	3.26	3.35	3.44	3.53	3.62	3.71
94	2.75	2.84	2.93	3.01	3.10	3.19	3.28	3.37	3.46	3.55	3.63
96	2.69	2.78	2.86	2.95	3.04	3.13	3.21	3.30	3.39	3.47	3.56
98	2.64	2.72	2.81	2.89	2.98	3.06	3.15	3.23	3.32	3.40	3.49
100	2.58	2.67	2.75	2.83	2.92	3.00	3.08	3.17	3.25	3.33	3.44

Yards of Cloth per Loom per Hour — (Continued)

No allowance for stops

PICKS PER INCH	PICKS PER MINUTE										
	100	105	110	115	120	125	130	135	140	145	150
102	1.63	1.72	1.80	1.88	1.96	2.04	2.12	2.21	2.29	2.37	2.45
104	1.60	1.68	1.76	1.84	1.92	2.00	2.08	2.16	2.24	2.32	2.40
106	1.57	1.65	1.73	1.81	1.89	1.97	2.04	2.12	2.20	2.28	2.36
108	1.54	1.62	1.70	1.77	1.85	1.93	2.01	2.08	2.16	2.24	2.31
110	1.52	1.59	1.67	1.74	1.82	1.89	1.97	2.05	2.12	2.20	2.27
112	1.49	1.56	1.64	1.71	1.79	1.86	1.93	2.01	2.08	2.16	2.23
114	1.46	1.54	1.61	1.68	1.75	1.83	1.90	1.97	2.05	2.12	2.19
116	1.44	1.51	1.58	1.65	1.72	1.80	1.87	1.94	2.01	2.08	2.16
118	1.41	1.48	1.55	1.62	1.69	1.77	1.84	1.91	1.98	2.05	2.12
120	1.39	1.46	1.53	1.60	1.67	1.74	1.81	1.87	1.94	2.01	2.08
122	1.37	1.43	1.50	1.57	1.64	1.71	1.78	1.84	1.91	1.98	2.04
124	1.34	1.41	1.48	1.55	1.61	1.68	1.75	1.81	1.88	1.95	2.01
126	1.32	1.39	1.46	1.52	1.59	1.65	1.72	1.79	1.85	1.92	1.98
128	1.30	1.37	1.43	1.50	1.56	1.63	1.69	1.76	1.82	1.89	1.95
130	1.28	1.35	1.41	1.47	1.54	1.60	1.67	1.73	1.79	1.86	1.92
134	1.24	1.31	1.37	1.43	1.49	1.55	1.62	1.68	1.74	1.80	1.87
136	1.23	1.29	1.35	1.41	1.47	1.53	1.59	1.65	1.72	1.78	1.84
140	1.19	1.25	1.31	1.37	1.43	1.49	1.55	1.61	1.67	1.73	1.79
144	1.16	1.22	1.27	1.33	1.39	1.45	1.50	1.56	1.62	1.68	1.74
146	1.14	1.20	1.26	1.31	1.37	1.43	1.48	1.54	1.60	1.66	1.71
150	1.11	1.17	1.22	1.28	1.33	1.39	1.44	1.50	1.56	1.61	1.67
154	1.08	1.14	1.19	1.24	1.30	1.35	1.41	1.46	1.52	1.57	1.62
156	1.07	1.12	1.18	1.23	1.28	1.34	1.39	1.44	1.50	1.55	1.60
160	1.04	1.09	1.15	1.20	1.25	1.30	1.35	1.41	1.46	1.51	1.56
164	1.02	1.07	1.12	1.17	1.22	1.27	1.32	1.37	1.42	1.47	1.52
166	1.00	1.05	1.10	1.15	1.20	1.26	1.31	1.35	1.41	1.46	1.51
170	.98	1.03	1.08	1.13	1.18	1.23	1.27	1.32	1.37	1.42	1.47
174	.96	1.01	1.05	1.10	1.15	1.20	1.25	1.29	1.34	1.39	1.44
176	.95	.99	1.04	1.09	1.14	1.18	1.23	1.28	1.33	1.37	1.42
180	.93	.97	1.02	1.06	1.11	1.16	1.20	1.25	1.30	1.34	1.39

Yards of Cloth per Loom per Hour — (Concluded)

No allowance for stops

PICKS PER INCH	PICKS PER MINUTE										
	155	160	165	170	175	180	185	190	195	200	205
102	2.53	2.61	2.70	2.78	2.86	2.94	3.02	3.10	3.19	3.27	3.35
104	2.48	2.56	2.64	2.72	2.80	2.88	2.96	3.04	3.13	3.21	3.29
106	2.44	2.52	2.59	2.67	2.75	2.83	2.91	2.99	3.07	3.14	3.22
108	2.39	2.47	2.55	2.62	2.70	2.78	2.85	2.93	3.01	3.09	3.16
110	2.35	2.42	2.50	2.58	2.65	2.73	2.80	2.88	2.95	3.03	3.11
112	2.31	2.38	2.46	2.53	2.60	2.68	2.75	2.83	2.90	2.98	3.05
114	2.27	2.34	2.41	2.49	2.56	2.63	2.70	2.78	2.85	2.92	3.00
116	2.23	2.30	2.37	2.44	2.51	2.59	2.66	2.73	2.80	2.87	2.95
118	2.19	2.26	2.33	2.40	2.47	2.54	2.61	2.68	2.75	2.82	2.90
120	2.15	2.22	2.29	2.36	2.43	2.50	2.57	2.64	2.71	2.78	2.85
122	2.12	2.19	2.25	2.32	2.39	2.46	2.53	2.60	2.66	2.73	2.80
124	2.08	2.15	2.22	2.28	2.35	2.42	2.49	2.55	2.62	2.69	2.76
126	2.05	2.12	2.18	2.25	2.31	2.38	2.45	2.51	2.58	2.65	2.71
128	2.02	2.08	2.15	2.21	2.28	2.34	2.41	2.47	2.54	2.60	2.67
130	1.99	2.05	2.12	2.18	2.24	2.31	2.37	2.44	2.50	2.56	2.63
134	1.93	1.99	2.05	2.11	2.18	2.24	2.30	2.36	2.43	2.49	2.55
136	1.90	1.96	2.02	2.08	2.14	2.21	2.27	2.33	2.39	2.45	2.51
140	1.85	1.90	1.96	2.02	2.08	2.14	2.20	2.26	2.32	2.38	2.44
144	1.79	1.85	1.91	1.97	2.03	2.08	2.14	2.20	2.26	2.31	2.37
146	1.77	1.83	1.88	1.94	2.00	2.05	2.11	2.17	2.23	2.28	2.34
150	1.72	1.78	1.83	1.89	1.94	2.00	2.06	2.11	2.17	2.22	2.28
154	1.68	1.73	1.79	1.84	1.89	1.95	2.00	2.06	2.11	2.16	2.22
156	1.66	1.71	1.76	1.82	1.87	1.92	1.98	2.03	2.08	2.14	2.19
160	1.61	1.67	1.72	1.77	1.82	1.87	1.93	1.98	2.03	2.08	2.14
164	1.58	1.63	1.68	1.73	1.78	1.83	1.88	1.93	1.98	2.03	2.08
166	1.56	1.61	1.66	1.71	1.76	1.81	1.86	1.91	1.96	2.01	2.06
170	1.52	1.57	1.62	1.67	1.72	1.76	1.81	1.86	1.91	1.96	2.01
174	1.48	1.54	1.58	1.63	1.68	1.72	1.77	1.82	1.87	1.92	1.96
176	1.47	1.52	1.56	1.61	1.66	1.70	1.75	1.80	1.85	1.89	1.94
180	1.44	1.48	1.53	1.57	1.62	1.67	1.71	1.76	1.81	1.85	1.90

Average Yarn Sizes for Knitting Machines

Courtesy of the Textile World

The accompanying table gives the averages of yarn sizes used on machines with different needles per inch. Yarns coarser or finer can be used, of course, but this table will serve as a guide.

RIB MACHINES			Cylinder Needles per Inch	PLAIN MACHINES		
Woolen	Worsted	Cotton		Cotton	Worsted	Woolen
.75	2.25	1.5	3	.75	1.1	.40
1.25	3.75	2.5	4	1.5	2.25	.75
2.00	6.0	4.0	5	2.0	3.0	1.00
3.00	9.0	6.0	6	3.0	4.5	1.50
4.25	12.0	8.0	7	4.0	6.0	2.00
5.25	15.0	10.0	8	5.0	7.5	2.50
6.75	19.5	13.0	9	6.0	9.0	3.00
8.50	24.0	16.0	10	7.0	10.5	3.75
	30.0	20.0	11	8.0	12.0	4.25
	36.0	24.0	12	10.0	15.0	5.25
	42.0	28.0	13	12.0	18.0	6.25
	45.0	30.0	14	14.0	21.0	7.25
	50.0	33.0	15	16.0	24.0	8.50
	54.0	36.0	16	20.0	30.0	
	60.0	40.0	17	22.0	33.0	
			18	25.0	37.0	
			19	27.0	41.0	
			20	30.0	45.0	
			21	32.0	48.0	
			22	35.0	53.0	
			24	40.0	60.0	

Full Fashion { 39 gauge, 10 to 12 thread silk
42 gauge, 8 to 10 thread silk

Reasonable Allowance for Stops

Courtesy of the Textile World

The following figures show a reasonable allowance for stoppage of different classes of knitting mill machinery. They indicate the average percentage of the running time lost under normal conditions.

	Per Cent
Winders	5 to 25
Flat machines	5 to 20
Small ribbers	10
Large ribbers	15
Loop wheel machines	10
Automatics	10

Table Showing Number of Slots in Cylinders of Different Cuts

Courtesy of the Textile World

[Needles per inch]

Size of Machine	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	24	26	28
2	20	24	32	38	44	50	58	64	70	76	80	88	94	100	108	116	122	128	132	140	152	160	176
2 1/2	21	25	33	40	47	54	62	69	76	83	91	100	108	116	124	132	140	148	156	164	172	180	196
3	22	28	36	42	48	56	64	70	76	84	92	100	108	116	124	132	140	148	156	164	172	180	200
3 1/2	24	30	38	46	54	62	70	76	84	96	104	112	120	128	136	144	152	160	168	176	184	192	220
4	26	34	42	50	60	68	76	84	94	104	112	120	128	136	144	152	160	168	176	184	192	204	240
4 1/2	28	36	44	52	62	72	82	92	102	112	122	132	142	152	162	172	182	192	202	212	222	232	264
5	30	38	48	56	64	74	84	94	104	114	124	134	144	154	164	174	184	194	204	214	224	234	288
5 1/2	32	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	304
6	34	42	52	62	72	82	92	102	112	122	132	142	152	162	172	182	192	202	212	222	232	242	328
6 1/2	36	44	56	66	76	86	96	106	116	126	136	146	156	166	176	186	196	206	216	226	236	246	352
7	38	48	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	376
7 1/2	40	50	64	76	88	100	112	124	136	148	160	172	184	196	208	220	232	244	256	268	280	292	400
8	42	54	70	84	98	112	126	140	154	168	182	196	210	224	238	252	266	280	294	308	322	336	416
8 1/2	44	56	72	88	104	120	136	152	168	184	200	216	232	248	264	280	296	312	328	344	360	376	440
9	46	60	76	92	108	124	140	156	172	188	204	220	236	252	268	284	299	315	331	347	363	389	464
9 1/2	48	64	80	96	112	128	144	160	176	192	208	224	240	256	272	288	304	320	336	352	368	384	480
10	50	68	86	104	122	140	158	176	194	212	230	248	266	284	302	320	338	356	374	392	410	428	504
10 1/2	52	70	88	106	124	142	160	178	196	214	232	250	268	286	304	322	340	358	376	394	412	430	528
11	54	72	90	108	126	144	162	180	200	218	236	254	272	290	308	326	344	362	380	398	416	434	544
11 1/2	56	76	96	116	136	156	176	196	216	236	256	276	296	316	336	356	376	396	416	436	456	476	576
12	58	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	600
12 1/2	60	84	108	132	156	180	204	228	252	276	300	324	348	372	396	420	444	468	492	516	540	564	704
13	62	88	112	136	160	184	208	232	256	280	304	328	352	376	400	424	448	472	496	520	544	672	832
13 1/2	64	92	120	144	168	192	216	240	264	288	312	336	360	384	408	432	456	480	504	528	552	688	864
14	66	96	124	152	180	208	236	264	292	320	348	376	404	432	460	488	516	544	572	600	628	768	960
14 1/2	68	100	128	156	184	212	240	268	296	324	352	380	408	436	464	492	520	548	576	604	632	776	992
15	70	104	132	160	188	216	244	272	300	328	356	384	412	440	468	496	524	552	580	608	636	784	1008
15 1/2	72	108	136	164	192	220	248	276	304	332	360	388	416	444	472	500	528	556	584	612	640	792	1024
16	74	112	140	168	196	224	252	280	308	336	364	392	420	448	476	504	532	560	588	616	644	796	1040
16 1/2	76	116	144	172	200	228	256	284	312	340	368	396	424	452	480	508	536	564	592	620	648	800	1056
17	78	120	148	176	204	232	260	288	316	344	372	400	428	456	484	512	540	568	596	624	652	808	1072
17 1/2	80	124	152	180	208	236	264	292	320	348	376	404	432	460	488	516	544	572	600	628	656	812	1088
18	82	128	156	184	212	240	268	296	324	352	380	408	436	464	492	520	548	576	604	632	660	816	1104
18 1/2	84	132	160	188	216	244	272	300	328	356	384	412	440	468	496	524	552	580	608	636	664	820	1120
19	86	136	164	192	220	248	276	304	332	360	388	416	444	472	500	528	556	584	612	640	668	824	1136
19 1/2	88	140	168	196	224	252	280	308	336	364	392	420	448	476	504	532	560	588	616	644	672	828	1152
20	90	144	172	200	228	256	284	312	340	368	396	424	452	480	508	536	564	592	620	648	676	832	1168
20 1/2	92	148	176	204	232	260	288	316	344	372	400	428	456	484	512	540	568	596	624	652	680	836	1184
21	94	152	180	208	236	264	292	320	348	376	404	432	460	488	516	544	572	600	628	656	684	840	1200
21 1/2	96	156	184	212	240	268	296	324	352	380	408	436	464	492	520	548	576	604	632	660	688	844	1216
22	98	160	188	216	244	272	300	328	356	384	412	440	468	496	524	552	580	608	636	664	692	848	1232
22 1/2	100	164	192	220	248	276	304	332	360	388	416	444	472	500	528	556	584	612	640	668	696	852	1248
23	102	168	196	224	252	280	308	336	364	392	420	448	476	504	532	560	588	616	644	672	700	856	1264
23 1/2	104	172	200	228	256	284	312	340	368	396	424	452	480	508	536	564	592	620	648	676	704	860	1280
24	106	176	204	232	260	288	316	344	372	400	428	456	484	512	540	568	596	624	652	680	708	864	1296
24 1/2	108	180	208	236	264	292	320	348	376	404	432	460	488	516	544	572	600	628	656	684	712	868	1312
25	110	184	212	240	268	296	324	352	380	408	436	464	492	520	548	576	604	632	660	688	716	872	1328
25 1/2	112	188	216	244	272	300	328	356	384	412	440	468	496	524	552	580	608	636	664	692	720	876	1344
26	114	192	220	248	276	304	332	360	388	416	444	472	500	528	556	584	612	640	668	696	724	880	1360
26 1/2	116	196	224	252	280	308	336	364	392	420	448	476	504	532	560	588	616	644	672	700	728	884	1376
27	118	200	228	256	284	312	340	368	396	424	452	480	508	536	564	592	620	648	676	704	732	888	1392
27 1/2	120	204	232	260	288	316	344	372	400	428	456	484	512	540	568	596	624	652	680	708	736	892	1408
28	122	208	236	264	292	320	348	376	404	432	460	488	516	544	572	600	628	656	684	712	740	896	1424
28 1/2	124	212	240	268	296	324	352	380	408	436	464	492	520	548	576	604	632	660	688	716	744	900	1440
29	126	216	244	272	300	328	356	384	412	440	468	496	524	552	580	608	636	664	692	720	748	904	1456
29 1/2	128	220	248	276	304	332	360	388	416	444	472	500	528	556	584	612	640	668	696	724	752	908	1472
30	130	224	252	280	308	336	364	392	420	448	476	504	532	560	588	616	644	672	700	728	756	912	1488
30 1/2	132	228	256	284	312	340	368	396	424	452	480	508	536	564	592	620	648	676	704	732	760	916	1504
31	134	232	260	288	316	344	372	400	428	456	484	512	540	568	596	624	652	680	708	736	764	920	1520
31 1/2	136	236	264	292	320	348	376	404	432	460	488	516	544	572	600	628	656	684	712	740	768	924	1536
32	138	240	268	296	324	352	380	408	436	464	492	520	548	576	604	632	660	688	716	744	772	928	1552

Latch Needle Gauge and Needles Per Inch

Courtesy of the Textile World

The common gauges of latch needles are listed here with the number of needles per inch in the cylinder of the machines to correspond with them.

NEEDLE GAUGE	NEEDLES PER INCH	
	Ribbers	Automatics
2	1-2	-
4	2-3	-
8	3-4	-
12	3-5	5 - 8.4
18	4-7	8.4-10.1
24	6-9	10.3-11.6
36	8-13	11.6-14.9
48	10-15	15.0-18.6
54	-	18.3-20.3
60	16 and up	-

Production of Cotton Rib Underwear

Compiled by Gilbert R. Merrill

[Per 9 hours, no stops, 1 foot yarn for 4 inches of needles]

Cut	Yarn Size	Production per Feed [In Pounds]
4	2 $\frac{1}{3}$	50.0
5	4	29.0
6	6	20.0
7	8	15.0
8	10	12.0
9	13	9.1
10	16	7.4
11	20	5.9
12	24	4.9
13	28	4.2
14	34	3.5

Average Underwear Production

Compiled by Gilbert R. Merrill

[Dozen garments per 10 hours]

OPERATION	Union Suits	Shirts	Drawers	Usual Operative
Knit (6 to 10 machines):				
Webbing	36-60	60-90	42-90	Man
Cuffs	300-325	300-325	300-325	Man
Collarettes	500-600	500-600	-	Man
Nap (3 machines)	180	420	300	Man
Cut:				
Hand	40	100	100	Man
Machine	200	375	375	Man
Examine and dozen	300	300	300	Woman
Cuff	50	100	100	Woman
Welt	-	75	-	Woman
Seam	11-18	35-45	25-45	Woman
Cover seam	20-25	40-75	40-60	Woman
Layout and mark neck	125-150	150-200	-	Woman
Neck	140-150	175-200	-	Woman
Neck cut	125-160	150-200	-	Woman
Face	50-75	120-160	-	Woman
Button stay	60-75	140-185	-	Woman
Collarette	40-80	40-80	-	Woman
Overedge	60-125	100-200	-	Woman
Tack and bind	50-75	50-100	-	Woman
Trim	-	-	150-175	Woman
Double seat	50	-	65-75	Woman
Finish	-	-	18-22	Woman
Strap	-	-	90-100	Woman
Eyelet:				
Punched	-	-	300-320	Woman
Worked	-	-	550-600	Woman
Buttonholes	50 (8 button)	100 (4 button)	150 (3 button)	Woman
Mark buttons	100 (8 button)	200 (4 button)	250 (3 button)	Woman
Sew buttons	60 (8 button)	125 (4 button)	140 (3 button)	Woman
Examine	25-30	50-85	45-60	Woman
Mend garments	150-200	150-200	150-200	Woman
Label	80	80	80	Woman
Press	45-80	70-140	80-150	Man
Fold	45-60	90	100	Woman
Box	150	300-350	300-400	Woman

Above figures are for plant having a capacity of 800 dozen per day, with 7 to 8 per cent seconds.

Order of inspection: first, for heavy or light ends, dust marks, discolored buttons, crooked or strained seams; second, for seams, buttons and buttonholes, neck, leg, and sleeve finish.

Maximum Limits of Humidity at Given Temperatures when Artificial Humidification is employed

General Laws, chapter 149, section 110, Commonwealth of Massachusetts

I Dry Bulb Thermometer Readings (Degrees Fahr.)	II Wet Bulb Thermometer Readings (Degrees Fahr.)	III Percentage of Humidity	I Dry Bulb Thermometer Readings (Degrees Fahr.)	II Wet Bulb Thermometer Readings (Degrees Fahr.)	III Percentage of Humidity
60	58	88	78	73.5	77
61	59	88	79	74.5	77.5
62	60	88	80	75.5	77.5
63	61	88	81	76	76
64	62	88	82	76.5	74
65	63	88	83	77.5	74
66	64	88	84	78	72
67	65	88	85	79	72
68	66	88	86	80	72
69	67	88	87	80.5	71
70	68	88	88	81.5	71
71	68.5	85.5	89	82.5	71
72	69	84	90	83	69
73	70	84	91	83.5	68
74	70.5	81.5	92	84.5	68
75	71.5	81.5	93	85.5	68
76	72	79	94	86	68
77	73	79	95	87	66

Grades and Colors of the Universal Standards for American Upland Cotton

United States Department of Agriculture Circular 278

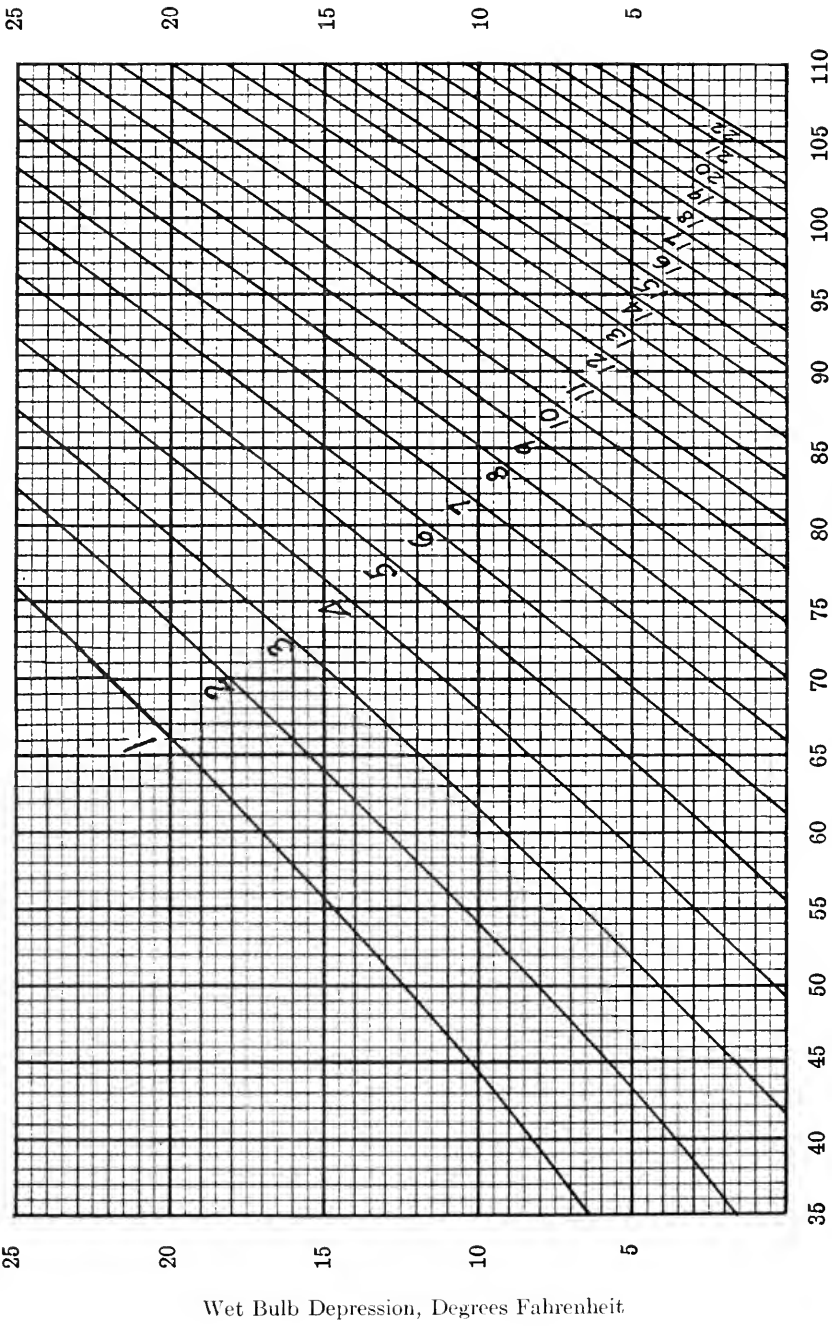
Blue- stained	Gray	Standards for Grades of Upland Cotton, White	Spotted	Yellow- tinged	Light- stained	Yellow- stained
		1 or midling fair				
		2 or strict good midling		2 T.		
3 B.	3 G.	3 or good midling	3 Sp.	3 T.	3 L. S.	3 S.
4 B.	4 G.	4 or strict midling	4 Sp.	4 T.	4 L. S.	4 S.
5 B.	5 G.	5 or midling	5 Sp.	5 T.	5 L. S.	5 S.
		6 or strict low midling	6 Sp.	6 T.		
		7 or low midling	7 Sp.	7 T.		
		8 or strict good ordinary				
		9 or good ordinary				

Symbols in heavy type denote grades and colors for which practical forms of the official cotton standards are prepared. Symbols in italics represent the designations of cotton which in color is between practical forms.

The grades shown above the black lines are deliverable on future contracts made in accordance with section 5 of the United States Cotton Futures Act. Those below the line are untenderable on such contracts.

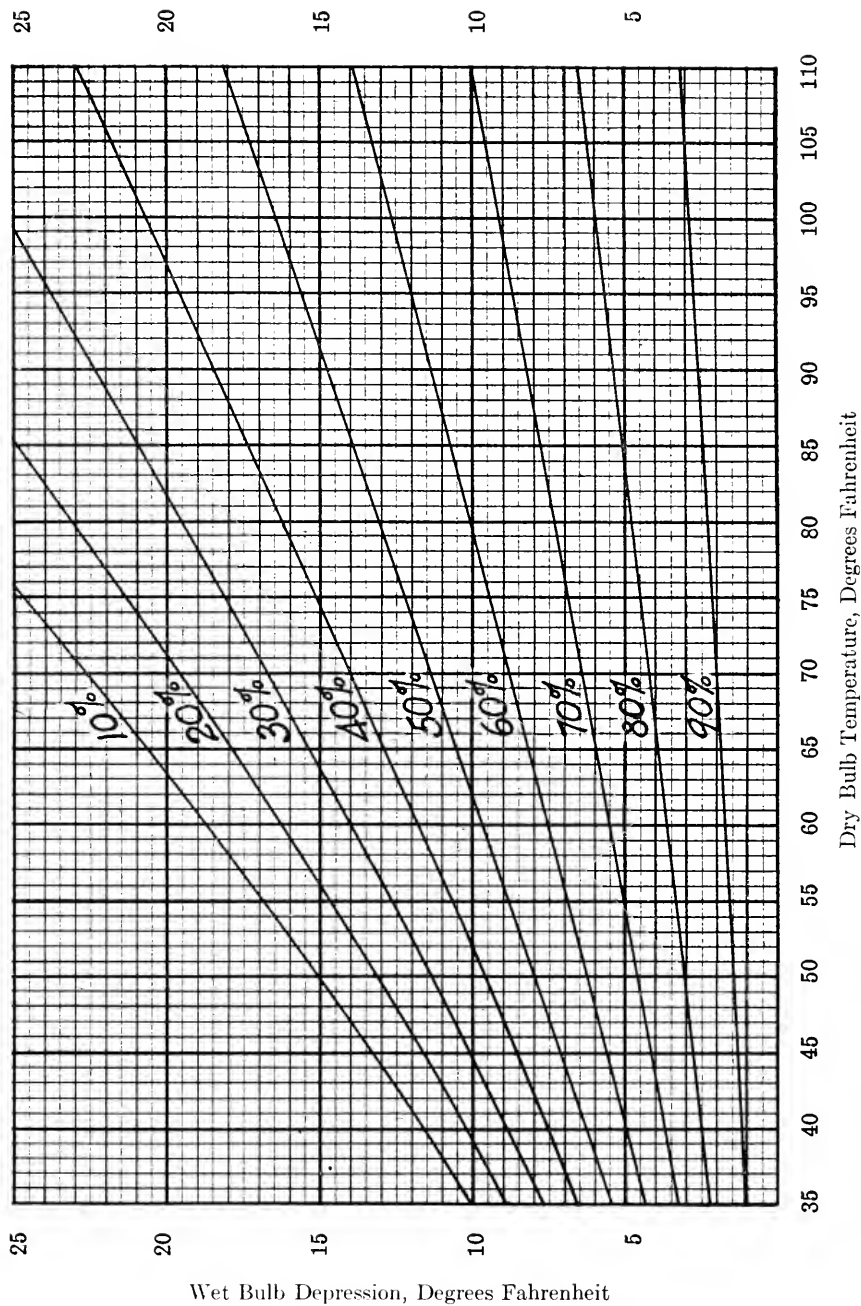
Absolute Humidity

Grains of moisture per cubic foot
Courtesy Parks-Cramer Company

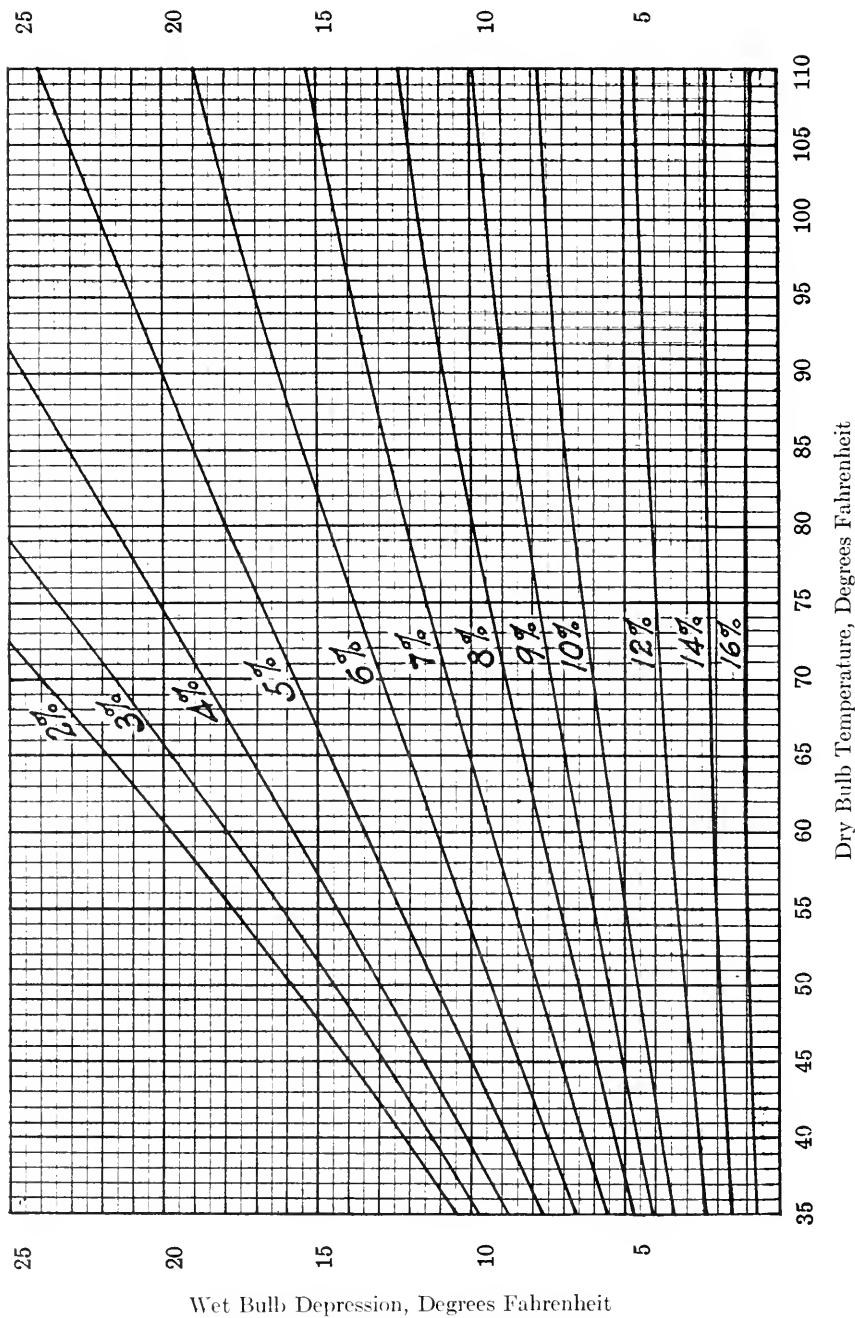


Relative Humidity

Courtesy Parks-Cramer Company



Cotton Regain
Theoretical Regain for Raw Cotton
Courtesy Parks-Cramer Company



Psychrometric Humidity Table for Use with Sling Psychrometer only

Courtesy Parks-Cramer Company

TEMP OF DRY BULB	Relative Humidities—Large Figures										Actual Humidities—Small Figures															
	WET BULB DEPRESSION																									
F°	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°	20°	21°	22°	23°	24°	
60	100	94	89	83	78	73	68	63	58	53	48	43	39	34	30	26	21	17	13	9	5	1				
61	100	94	89	84	78	73	68	63	58	54	49	44	40	35	31	27	23	18	14	10	7	3				
62	100	94	89	84	79	74	69	64	59	54	50	45	41	36	32	28	24	20	16	12	8	4	1			
63	100	95	89	84	79	74	69	64	60	55	51	46	42	37	33	29	25	21	17	13	10	6	2			
64	100	95	90	84	79	74	70	65	60	56	51	47	43	38	34	30	26	22	18	15	11	7	4			
65	100	95	90	85	80	75	70	66	61	56	52	48	44	39	35	31	27	24	20	16	12	9	5	2		
66	100	95	90	85	80	75	71	66	61	57	53	48	44	40	36	32	29	25	21	17	14	10	7	3		
67	100	95	90	85	80	75	71	66	62	58	53	49	45	41	37	33	30	26	22	19	15	12	8	5	2	
68	100	95	90	85	80	76	71	67	62	58	54	50	46	42	38	34	31	27	23	20	16	13	10	6	3	
69	100	95	90	85	81	76	72	67	63	59	55	51	47	43	39	35	32	28	24	21	18	14	11	8	5	
70	100	95	90	86	81	77	72	68	64	59	55	51	48	44	40	36	33	29	26	22	19	15	12	9	6	
71	100	95	90	86	81	77	72	68	64	60	56	52	48	45	41	37	33	30	27	23	20	17	13	10	7	
72	100	95	91	86	82	77	73	69	65	61	57	53	49	45	42	38	34	31	28	24	21	18	15	12	9	
73	100	95	91	86	82	78	73	69	65	61	57	53	50	46	42	39	35	32	29	25	22	19	16	13	10	
74	100	95	91	86	82	78	74	69	65	61	58	54	50	47	43	39	36	33	29	26	23	20	17	14	11	
75	100	96	91	86	82	78	74	70	66	62	58	54	51	47	44	40	37	34	30	27	24	21	18	15	12	
76	100	96	91	87	82	78	74	70	66	62	59	55	51	48	44	41	38	34	31	28	25	22	19	16	13	
77	100	96	91	87	83	79	74	71	67	63	59	56	52	48	45	42	39	35	32	29	26	23	20	17	14	
78	100	96	91	87	83	79	75	71	67	63	60	56	53	49	46	43	39	36	33	30	27	24	21	18	16	
79	100	96	91	87	83	79	75	71	68	64	60	57	53	50	46	43	40	37	34	31	28	25	22	19	17	
80	100	96	91	87	83	79	75	72	68	64	61	57	54	50	47	44	41	38	35	32	29	26	23	20	18	
81	100	96	92	88	84	80	76	72	68	65	61	58	55	51	48	45	42	39	36	33	30	27	24	21	19	
82	100	96	92	88	84	80	76	72	69	65	61	58	55	51	48	45	42	39	36	33	30	28	25	22	20	
83	100	96	92	88	84	80	76	73	69	66	62	59	56	52	49	46	43	40	37	34	31	28	25	23	20	
84	100	96	92	88	84	80	76	73	69	66	62	59	56	52	49	46	43	40	37	35	32	29	26	24	21	
85	100	96	92	88	84	80	77	73	69	66	63	60	57	53	50	47	44	41	38	36	33	30	27	25	22	
86	100	96	92	88	84	81	77	73	70	66	63	60	57	53	50	47	44	42	39	36	33	31	28	26	23	
87	100	96	92	88	85	81	77	74	70	67	64	61	57	54	51	48	45	43	40	37	34	32	29	27	24	
88	100	96	92	88	85	81	77	74	70	67	64	61	57	54	51	48	46	43	40	37	35	32	30	27	25	
89	100	96	92	88	85	81	77	74	70	67	64	61	57	54	51	48	46	43	40	37	35	33	30	28	25	
90	100	96	92	89	85	81	78	74	71	68	65	61	58	55	52	49	47	44	41	39	36	34	31	29	26	
91	100	96	92	89	85	82	78	75	72	68	65	62	59	56	53	50	48	45	42	40	37	35	33	30	27	
92	100	96	92	89	85	82	78	75	72	68	65	62	59	56	53	50	48	45	42	40	37	35	33	30	28	
93	100	96	93	89	85	82	79	75	72	69	66	63	60	57	54	51	49	46	43	41	38	36	33	31	29	
94	100	96	93	89	85	82	79	75	72	69	66	63	60	57	54	51	49	46	43	41	38	36	33	31	29	
95	100	96	93	89	85	82	79	75	72	69	66	63	60	57	54	51	49	46	43	41	38	36	34	31	29	
96	100	96	93	89	86	82	79	76	73	69	66	63	61	58	55	52	50	47	44	42	39	37	35	32	30	
97	100	96	93	89	86	82	79	76	73	69	66	63	61	58	55	52	50	47	44	42	39	37	35	33	31	
98	100	96	93	89	86	83	79	76	73	70	67	64	61	58	55	52	50	48	45	43	40	38	36	34	32	
99	100	96	93	89	86	83	80	77	73	70	67	64	61	58	55	52	50	48	45	43	41	39	37	35	33	
RELATIVE HUMIDITIES IN PERCENTAGES (%) ACTUAL HUMIDITIES IN GRAINS OF MOISTURE PER CUBIC FOOT OF AIR																										
Percent cotton regain 11 10 9 8 7 6 5																										

Percent cotton regain

11 10 9 8 7 6 5

United States Government General Specification for Textile Materials (Methods of Physical and Chemical Tests)

Circular of the Bureau of Standards, No. 293

I. ATMOSPHERIC CONDITIONS

Physical tests may be made under prevailing atmospheric conditions except in the settlement of disputes where moisture is an influencing factor in tests for breaking strength, thread count, weight, width, length, etc. Such tests shall then be made upon material having normal moisture content, obtained by exposure for at least four hours to an atmospheric condition of 65 per cent relative humidity at 70° F.

The effect of humidity is a decided variable in these tests, depending on the construction, finishing, sizing, etc. In general, a high relative humidity will increase all weight results, and in breaking-strength results will show an increase for vegetable fibers and a decrease for animal fibers. The manufacturer should note the humidity on a sling psychrometer at the time tests are made to establish whether his material conforms to these specifications and take into consideration the above facts.

II. FIBER IDENTIFICATION AND QUANTITATIVE DETERMINATIONS

1. COTTON. — In specifications calling for cotton fibers no further test is needed than the visual examination of the fibers as pulled from the specimen.

2. WOOL. — In specifications calling for all-wool fibers chemical tests shall be made to dissolve all of the wool fibers, leaving the impurities and vegetable fibers as indications of any variations from the all-wool requirements. Place the specimen of about 5 grams in a beaker or vessel containing at least 100 times its weight of 5 per cent solution of sodium or potassium hydroxide and boil slowly until the wool fibers become gelatinous and dissolve. If, after 10 minutes of boiling, there appear to be present any loose fibers or yarns when stirring with a glass rod, the contents shall be filtered through a fine-mesh wire cloth and the residue washed with warm water. Allow the residue to dry in air, then examine it for its nature and amount. The presence of fibers and of foreign matter in excess of 1 per cent in weight shall be cause for rejection.

3. WOOL AND COTTON MIXTURES. — In specifications calling for wool and cotton mixtures chemical tests shall be made according to the following classification:

(a) With a cotton warp and with no limit as to the proportion of cotton allowed, based on the weight of the material as a whole, the filling shall be separated from the material until a weight of about 5 grams is obtained. The test shall be given as for wool (II, 2).

(b) With a cotton warp and with a limit as to the proportion of cotton allowed, a specimen of about 5 grams shall be weighed and placed in a beaker or vessel containing at least 100 times its weight of 5 per cent solution of sodium or potassium hydroxide and boiled slowly until the wool fibers become gelatinous and dissolve. After a period of 10 minutes of boiling filter residue through a fine-mesh wire cloth and wash residue with warm water, then dry in air and weigh. The per cent of cotton present shall be calculated by adding 5 per cent of the residue dry weight, as expressed:

$$\frac{\text{Residue weight}}{95} \times 100 = \text{weight of cotton}$$

$$\frac{\text{Weight of cotton}}{\text{Original weight of specimen}} \times 100 = \text{per cent of cotton.}$$

(c) With no mention of where the cotton is to be found and with a limit as to the proportion of cotton allowed, the test shall be carried out as in (b).

4. UMPIRE METHOD FOR WOOL AND FOR WOOL AND COTTON MIXTURES. — In the event of a dispute, the following procedure shall be used: All weighings shall be made after the specimen has been conditioned at 65 per cent relative humidity and 70° F. Weighings shall be made to the nearest milligram or equivalent accuracy. Boil at least a 5 gram specimen in at least 100 times its weight of a 5 per cent solution of sodium or potassium hydroxide contained in an assay flask fitted with a reflux condenser for a period of one hour. Filter the residue on a fine-mesh wire cloth, wash first with warm water, then with a solution of 3 per cent acetic acid, and finally with hot water.

The per cent of cotton present shall be calculated by adding 5 per cent to the residue dry weight, as expressed:

$$\frac{\text{Residue weight}}{95} \times 100 = \text{weight of cotton}$$

$$\frac{\text{Weight of cotton}}{\text{Original weight of specimen}} \times 100 = \text{per cent of cotton.}$$

III. BREAKING STRENGTH, GRAB METHOD (1 x 1 x 3 inches)

Six test specimens 6 inches long by 4 inches wide shall be cut, three in the direction of the warp and three in the direction of the filling, respectively, as shown in Fig. 1. Care shall be taken that no two test specimens include the same threads, except for retest as specified below. No specimen for testing should be taken at less than 8 inches from either selvage.

The machine used shall be of the inclination balance type, as shown in Fig. 1. The maximum capacity of the machine shall be such that no break shall occur beyond the limits as shown in Fig. 1. The lower or pulling jaw shall travel at a uniform rate of 12 inches per minute under no load. The distance between jaws shall be 3 inches at start of test. (See Fig. 1.) The inside or back half of each jaw shall be 2 inches or more in width; the other half shall be 1 inch in width. Jaws shall have a smooth and flat surface with edges slightly rounded to prevent cutting. The results of the test of each direction shall be averaged. If a specimen slips in the jaw, breaks in the jaw, breaks at the edge of the jaw, or for any reason due to faulty operation, the result falls markedly below the general average, the result shall be disregarded, another specimen taken from the same threads, and the result of this break included in the average.

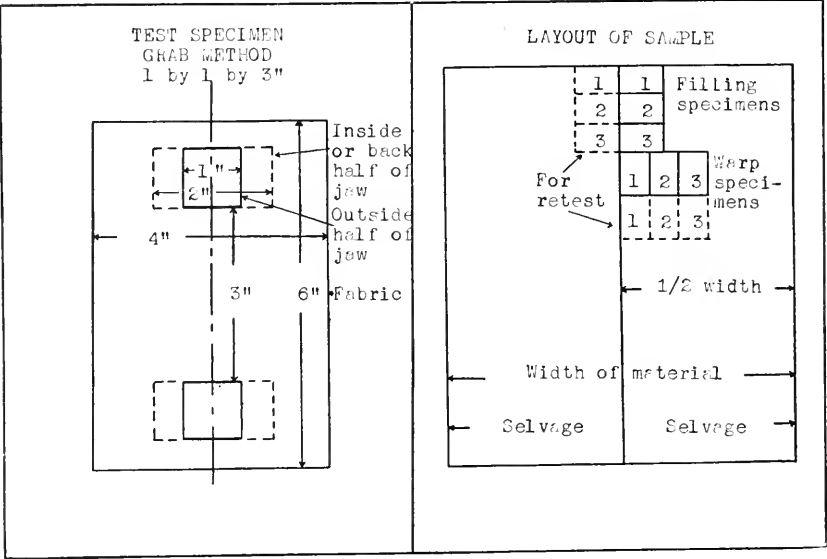


FIG. 1

IV. BREAKING STRENGTH, STRIP METHOD

Six test specimens approximately “x” inches (see Table A, Fig. 2) long by “z” inches (see Table A, Fig. 2) wide shall be cut, three in the direction of the warp and three in the direction of the filling, respectively, as shown in Fig. 2.

Each specimen shall be raveled to exactly 1 inch by taking from each side approximately the same number of threads. (See Fig. 2.) Care shall be taken that no two test specimens include the same threads, except for retest, as specified below. No specimen for testing should be taken at less than 8 inches from either selvage.

The machine used shall be of the inclination balance type, as shown in Fig. 2. The maximum capacity of the machine shall be such that no break shall occur beyond the limits, as shown in Fig. 2. The lower or pulling jaw shall travel at a uniform rate of 12 inches per minute under no load. The distance between jaws shall be “y” inches (see Table A) at the start of test. The width of the jaws shall be 1½ inches or more. Jaws shall have a smooth and flat surface with edges slightly rounded to prevent cutting. The results of the tests in each direction shall be averaged. If a specimen slips in the jaw, breaks in the jaw, breaks at the edge of the jaw, or for any reason due to faulty operation the result falls markedly below the general average, the result shall be disregarded, another specimen taken from the same threads, and the result of this break included in the average.

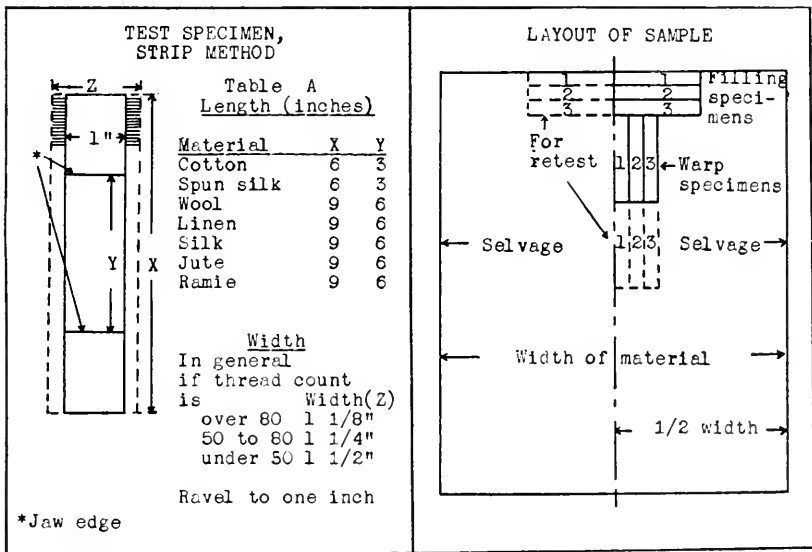


FIG. 2

V. WEIGHT PER SQUARE YARD

The weight per square yard may be determined by any one of the following three methods. In case of dispute, method No. 1 shall be used as an umpire method.

METHOD NO. 1. — Take 1 yard of the sample. Weigh, and if the width is not 1 yard calculate the weight per square yard.

$$\frac{\text{Weight of linear yard}}{\text{Width}} \times 36 = \text{weight per square yard.}$$

Average, 2 tests.

METHOD NO. 2. — Take a measured portion of the material and weigh. Calculate from this area the weight per square yard.

$$\frac{1,296 \times \text{weight of known area}}{\text{Area in inches}} = \text{weight per square yard.}$$

Average, 3 tests.

METHOD NO. 3. — Cut from the sample a specimen 2 by 2 inches, using a steel die. No specimen for testing shall be taken less than 8 inches from either selvage. Weigh on a balance adjusted to read the weight of the material in ounces per square yard.

Average, 3 to 5 tests.

VI. WEIGHT PER LINEAR YARD

The weight per linear yard shall be computed from the weight per square yard, as follows:

$$\frac{\text{Weight per square yard} \times \text{width}}{36} = \text{weight per linear yard.}$$

VII. THREAD COUNT

The actual number of threads in 1 inch of width shall be counted in each direction at three different places in the cloth and the results averaged for each direction. Where the thread count is under 25, the actual number of threads in 3 inches shall be counted for each direction at three different places in the cloth and the results reduced to threads per inch and averaged for each direction. When the size of the sample permits, these counts shall be taken about 6 inches apart. No warp reading should be taken at less than 8 inches from the selvage.

VIII. WIDTH

The width shall be determined by laying the material on a flat surface without tension, then measuring the distance perpendicular to the length from edge to edge to an accuracy of one-sixteenth inch. Three measurements shall be taken at different places in the sample and the results averaged.

Yarn Test Methods

Extracts from American Society for Testing Materials Test Methods¹

BREAKING STRENGTH

Two test methods are given, — the skein test and the single strand test. A preferred and alternative method for each test is given. The alternative method can be used where routine testing is done on a large scale. The preferred method should always be used in case of dispute.

SKEIN TEST (PREFERRED METHOD). — A standard skein (120-yard) shall be broken after conditioning of tubes or bobbins selected for test for twelve hours, or of skeins for at least three hours, in an atmosphere of 65 per cent relative humidity and 70° F. (21° C.). An automatic power yarn tester of inclination balance type, the maximum capacity of which shall be determined in accordance with a table of machine specifications, shall be used. The speed of the pulling jaw shall be 12 inches per minute. Any yarn reel having a 1½-yard perimeter may be used in preparing the skeins. For filling-wound yarns or yarns on cones, where the yarn is drawn from the top, a speed of 100 to 300 r. p. m. of reel shall be used. For warp-wound yarns or yarn on parallel tubes, where the yarn is drawn from the side, a speed of 20 to 30 r. p. m. of reel shall be used. On reels that have only one pigtail guide, the tension shall be applied by making one full wrap of the yarn around the guide. On reels using two or more guides, the yarn shall pass straight through the guide on to the reel, the angles of the guides supplying the necessary tension. Judgment must be used in regard to the amount of tension required on yarns having little or a large amount of twist. Three tests from each of four bobbins from every case of yarn shall be made.

SINGLE STRAND TEST (PREFERRED METHOD). — Single strands shall be broken after conditioning the tubes or bobbins for twelve hours in an atmosphere of 65 per cent relative humidity, 70° F. (21° C.). A single strand tester of proper capacity with the jaws set 10 inches between grips and having a speed of pulling jaw of 12 inches per minute shall be used. The average of 4 breaks from each of 10 bobbins shall be the average strength.

PLIED YARNS (PREFERRED METHOD). — Plied yarns, except standard tire cord, shall be subjected to the single strand break after conditioning for twelve hours on spools or tubes selected for test, in an atmosphere of 65 per cent relative humidity and 70° F. (21° C.). Standard tire

¹ For complete Methods of Testing and Tolerances, see American Society for Testing Materials Book of Standards.

cord shall be tested under dry conditions in accordance with the Standard General Methods of Testing Woven Textile Fabrics (Serial Designation D 39) of the American Society for Testing Materials.¹ A single strand tester of proper capacity with the jaws set 10 inches between grips and having a speed of pulling jaw of 12 inches per minute shall be used. The average of 4 breaks from each of 10 spools or tubes shall be reported as the average strength.

ALTERNATE METHOD. — Skeins of single strands of yarn, either single or plied, prepared in accordance with previous paragraphs, shall be broken under natural humidity conditions at time of test. The results thus obtained shall be reduced to a common basis of standard moisture regain equal to 7 per cent of the bone-dry weight.

MOISTURE REGAIN DETERMINATION. — To determine moisture regain present in samples, the several skeins shall be weighed collectively, immediately after testing, under natural moisture conditions which obtain at the time of test. The skeins shall then be placed in the basket of an oven at a temperature of 105 to 110° C. (221 to 230° F.) and dried to constant weight. The moisture regain is then computed as the percentage of the dry weight.

CORRECTION TO STANDARD REGAIN. — (a) The following formula shall then be applied, based on the assumption that the standard moisture regain of cotton yarns is 7 per cent of the dry weight; that the actual percentage regain is between the limits of 3 and 7 per cent of the dry weight; and that for 1 per cent of moisture regain there is an increase of 6 per cent in the tensile strength of the yarn.

$$\text{Tensile strength corrected to standard moisture regain} = \frac{(\text{Tensile strength from machine reading}) \times 142}{100 + (6 \times \text{actual percentage regain})}$$

(b) Moisture regain tests shall be made periodically during the hours of testing as the natural humidity conditions are found to vary. .

STRENGTH CORRECTION TO SIZE. — The average tensile strength shall be corrected to the specified size as determined in accordance with the following paragraphs, by the following formula:

$$\text{Corrected tensile strength} = \text{Actual average strength} \times \frac{\text{Actual average size}}{\text{Specified size}}$$

SIZE OR YARN NUMBER

SIZE OF SINGLE YARNS (PREFERRED METHOD). — The size of all standard skeins used in the skein strength test shall be determined im-

¹ American Society for Testing Materials, 1927 Book of Standards.

mediately after being broken. In case the single strand test is made, the standard skein shall be prepared for the size determination at the time of the break, and the size determined immediately. The balance to be used in this test shall be accurate to 0.25 per cent of the standard size of the yarn. When the balance does not indicate the size directly, the yarn number or size may be calculated from the formula:

$$\text{Yarn number or size} = \frac{\text{Length in yards of single yarn}}{\text{Weight in grains}} \times \frac{7000 \text{ (grains in 1 pound)}}{840 \text{ (yards of No. 1 cotton yarn per pound)}}$$

SIZE OF PLIED YARNS (PREFERRED METHOD). — In determining the size of plied yarns, the skein shall be prepared in accordance with Table I, and the size shall be determined after conditioning of tubes or spools selected for test for twelve hours, or of skeins for at least three hours, in an atmosphere of 65 per cent relative humidity and 70° F. (21° C.). Any yarn reel having a 1½-yard perimeter may be used in preparing the skeins. For filling-wound yarns or yarn on cones, a speed of 100 to 300 r. p. m. of reel shall be used. For warp-wound yarns or yarn on parallel tubes, a speed of 20 to 30 r. p. m. of reel shall be used. On reels that have only one pigtail guide, the tension shall be applied by making one full wrap of the yarn around the guide. On reels using two or more guides, the yarn shall pass straight through the guides on to the reel, the angles of the guides supplying the necessary tension.

TABLE I

EQUIVALENT SINGLES SIZE	Yards for Size	Conversion Formula	Number of Tests Per Case of Yarn
20's and above . . .	60	$\frac{\text{Size}}{2} = \text{ply size}$	3 from each of 4 spools or tubes
3's to 20's	24	$\frac{\text{Size}}{5} = \text{ply size}$	3 from each of 4 spools or tubes
Below 3's	12	$\frac{\text{Size}}{10} = \text{ply size}$	3 from each of 4 spools or tubes

SIZE OF ALL YARNS (ALTERNATE METHOD). — All yarns used in the alternate method of testing for strength shall be sized under natural humidity conditions at the time of test. Plied yarns shall be prepared in skeins in accordance with Table I. The moisture regain shall then be determined and results corrected to a common basis of standard

moisture regain equal to 7 per cent of the bone-dry weight by means of the formula:

$$\text{Size corrected to standard moisture} = \frac{\text{Size} \times (100 + \text{actual percentage regain})}{107}$$

The average of these tests shall be the average size of case, bale, ball chain or beam warp of yarn.

TWIST

TWIST OF SINGLE YARNS. — No precision method of determining the twist of single yarns has been developed.

TWIST OF PLIED YARNS. — The ply twist in yarns of two or more ply shall be determined on any standard twist counter with jaws set 10 inches apart. The strands shall be clamped in jaws under a definite tension by attaching weights. The tension to be used shall be determined from the formula:

$$\text{Tension, in grams} = \frac{156 \text{ (Constant)}}{\text{Equivalent singles size}}$$

The constant of 156 represents a tension which should be placed on yarn or cord to hold it sufficiently taut and still not remove any stretch.

NUMBER OF TESTS. — Three twist tests on each of four packages of yarn from each case shall be made, and the average of these twelve tests shall be the average of the case.

Fastness Tests for Dyed or Printed Cotton

Recommended by the American Association of Textile Chemists and Colorists

FASTNESS TO DOMESTIC WASHING, LAUNDERING AND SOAPING

- Test 1 — Fastness to severe washing.
- Test 2 — Fastness to power laundering.
- Test 3 — Fastness to mild washing.
- Test 4 — Fastness to very mild washing.

METHOD OF TEST

Immerse the material, braided with an equal weight of white cotton or sewed on to a piece of white cotton cloth, in a solution of soap and soda of temperature and concentration as indicated below. Treat for thirty minutes; then lift, run through squeeze rolls and rinse well in water at 100° F. till soap and alkali are removed; then dry by hanging in air or dry closet. The soap to be used should be a good grade of 88 per cent chip tallow soap, and the soda ash the standard 58 per cent commercial product. The volume of liquor should be fifty times the weight of the goods. In Test 2, after a preliminary rinse to remove soap, the goods should be treated for ten minutes at 105° F. in 1/20 per cent acetic acid solution, then rinsed again and dried.

Temperature and Concentration

TEST No.	Temperature (Degree)	Soap (Per Cent)	Soda (Per Cent)
1	212	5/10	2/10
2	160	1/10	1/10
3	120	1/10	None
4	90	1/10	None

CLASSIFICATION

Class 1. Excellent. — This test applies to dyed or printed cotton that is to be subjected to the severest form of washing. Colors that stand Test 1 (without appreciable change and without staining white cotton) can be guaranteed fast to washing.

Class 2. Very Good. — This test applies to dyed or printed cotton that is to be washed by power laundries and which should stand treatment as prescribed by the Laundry Owners' National Association. Colors that stand Test 2 can be considered fast to laundering.

Class 3. Good; Commercially Fast. — This test applies to dyed or printed cotton that does not stand Test 1 or 2, but that does possess moderate fastness if washed carefully at a low temperature. It is intended to meet the requirements of a careful home washing. Colors that stand this test can be considered commercially fast.

Class 4. Fair. — This test applies to dyed or printed cotton that does not stand Test 3 but that does nevertheless possess some degree of

fastness. Colors that stand this test only cannot be washed with satisfactory results except by the most careful treatment.

Class 5. Poor; no Fastness to Washing.— This class includes all colors that fail to pass any of the above four tests.

Determination of Sizing

Bureau of Standards Method

1. Heat weighing bottle and lid for a half hour at 100° to 105° C. Place in desiccator until cool, then weigh. *Weight (a).* (Make this and all other weights herein to the nearest milligram.)

2. Place a specimen of from 3 to 10 grams in the weighing bottle (lid on) and weigh (to nearest milligram). *Weight (b).*

3. Place in a drying oven maintained at 104° to 106° C. Remove lid of weighing bottle. Dry for five hours.¹

4. Replace lid, place bottle containing specimen in desiccator and allow to cool for at least an hour, then weigh. *Weight (c).*

5. Repeat 3 except that it shall be dried for one hour instead of five. Repeat 4, obtaining *weight (d).*

6. If weights (c) and (d) are not within 2 milligrams agreement, repeat 5 until successive weighings are in agreement. Final is *weight (d₁).*

For cotton materials:

7. Treat in a hot 1 per cent sodium hydroxide solution for one hour. Rinse thoroughly in distilled water.

8. Treat in a hot 1 per cent solution of hydrochloric acid for one hour. Rinse thoroughly in distilled water.

9. Repeat steps 1 to 6, obtaining *weight (d₂).*

10. Calculations:

$$\frac{d_1 - d_2}{d_1} \times 100 = \text{per cent of sizing.}$$

¹ The loss caused by additional heating after five hours has been shown to be less than 0.01 to 0.02 per cent moisture.

Analysis of Cloth for Tariff Purposes

Treasury Decisions 33823 and 34255

Under the provisions of paragraph 253 the rates of duty are to be ascertained according to the average number of the yarns in the condition in which imported. The length of the yarn is to be counted as equal to the distance covered by it in the cloth, all clipped threads to be measured as if continuous, and all ply yarns to be separated into singles and the count taken of the total singles; any excessive sizing to be removed by boiling or other suitable process. The number of the yarn is the English number of 840 yards to a pound for a No. 1 yarn.

The average number of the yarn may be found without unraveling the fabric, and is the quotient of the division of the total thread length by the weight in the proportion of 840 yards of yarn equaling 1 pound of 7,000 grains or 1 yard of yarn equaling $8\frac{1}{3}$ grains, which is equivalent to a No. 1 yarn.

The following simple formula may be used: Multiply the count of threads per square inch by the number of square inches in the sample used, this product to be multiplied by 100; then divide the product thus obtained by the weight of the sample in grains multiplied by 432. The quotient will give the number of the yarn. For example, take a sample of cotton cloth 4 inches square, which equals 16 square inches, having 28 warp and 28 woof threads, a total of 56 threads to the square inch, and weighing 8.6 grains. The formula applied would be as follows:

$$\frac{56 \times 16 \times 100}{8.6 \times 432} = 24, \text{ the number of the yarn.}$$

The formula may be further simplified by weighing a square yard of said cloth and dividing the number of threads per square inch by $1/300$ of the weight of a square yard in grains.

Samples of all cotton cloth should be forwarded to the United States appraiser at New York on the C. V. R. cards, under the provisions of T. D. 31936. When a square yard or more is available for test the following formula may be used:

$$\frac{\text{Number of threads per square inch} \times 24}{\text{Number of ounces per square yard} \times 35} = \text{Average number of yarn.}$$

An addition of $8\frac{1}{2}$ per cent to be made to bone-dry weight in ascertaining the number of the yarn in cotton cloth.

Breaking Strength of American Yarns spun from American Cotton

By George Draper

120 Yards Weight (Grains)	Number of Yarn	OLD	NEW			120 Yards Weight (Grains)	Number of Yarn	OLD	NEW
		Breaking Weight of Warp Yarn	Breaking Weight of Warp Yarn	Breaking Weight Combed Warp	Breaking Weight Soft Twist Yarn			Breaking Weight of Warp Yarn	Breaking Weight of Combed Warp
1,000	1	—	—	—	—	19.6	51	36.6	47—
500	2	—	—	—	—	19.2	52	36.1	46
333.3	3	530	634+	863—	620+	18.9	53	35.5	45+
250	4	410	476—	646	462	18.5	54	34.9	44+
200	5	330	381	516	367	18.2	55	34.4	43+
166.7	6	275	318—	429+	304—	17.9	56	33.8	42+
142.9	7	237.6	272+	367+	258+	17.5	57	33.4	42—
125	8	209	238+	321	224+	17.2	58	32.8	41—
111.1	9	186.5	212+	285—	198+	17	59	32.3	40+
100	10	168.7	191	256	177	16.7	60	31.7	39+
90.9	11	154.1	174—	232+	160—	16.4	61	31.3	39—
83.3	12	142	159+	213—	145+	16.1	62	30.8	38—
76.9	13	131.5	147+	196	133+	15.9	63	30.4	37+
71.4	14	122.8	137—	182—	123—	15.6	64	30	37—
66.7	15	115.1	128—	169+	114—	15.4	65	29.6	36
62.5	16	108.4	120—	158+	106—	15.2	66	29.2	35+
58.8	17	102.5	113—	149—	99—	14.9	67	28.8	35—
55.6	18	97.3	107—	140+	93—	14.7	68	28.5	34+
52.6	19	92.6	101	133—	87	14.5	69	28.2	34—
50	20	88.3	96	126	82	14.3	70	27.8	33+
47.6	21	83.8	91+	120—	77+	14.1	71	27.4	33—
45.5	22	79.7	87+	114+	73+	13.9	72	27.1	32+
43.5	23	75.9	84—	109+	70—	13.7	73	26.8	32—
41.7	24	72.4	80+	104+	66+	13.5	74	26.5	31+
40	25	69.2	77	100	63	13.3	75	26.2	31—
38.5	26	66.3	74+	96	60+	13.2	76	25.8	30+
37	27	63.6	71+	92+	57+	13	77	25.5	30—
35.7	28	61.3	69—	89—	55—	12.8	78	25.3	29+
34.5	29	59.2	67—	86—	53—	12.7	79	24.9	29—
33.3	30	57.3	64+	83—	50+	12.5	80	24.6	28+
32.3	31	55.6	62+	80—	48+	12.4	81	24.3	28+
31.3	32	54	60+	77+	46+	12.2	82	24	28—
30.3	33	52.6	59—	75—	45—	12.1	83	23.7	27+
29.4	34	51.2	57—	72+	43—	11.9	84	23.4	27—
28.6	35	50	55+	70+	41+	11.8	85	23.2	27—
27.8	36	48.7	54—	68+	40—	11.6	86	22.8	26+
27	37	47.6	52+	66+	38+	11.5	87	22.6	26—
26.3	38	46.5	51	64+	37	11.4	88	22.4	26—
25.6	39	45.5	50—	63—	36—	11.2	89	22.2	25+
25	40	44.6	48+	61	34+	11.1	90	22	25—
24.4	41	43.8	47+	59+	33+	11	91	21.7	25—
23.8	42	43	46+	58—	32+	10.9	92	21.5	24+
23.3	43	42.2	45+	56+	31+	10.8	93	21.3	24—
22.7	44	41.4	44+	55+	30+	10.6	94	21.2	24—
22.2	45	40.7	43+	54—	29+	10.5	95	21	23+
21.7	46	40	42+	53—	28+	10.4	96	20.7	23+
21.3	47	39.3	41+	51+	27+	10.3	97	20.5	23—
20.8	48	38.6	41—	50+	27—	10.2	98	20.4	23—
20.4	49	37.9	40—	49+	26—	10.1	99	20.2	22+
20	50	37.3	39	48	25	10	100	20	22

Breaking Strength of Carded Warp Yarn

Courtesy of F. P. Sheldon & Son

COUNTS	STAPLE				
	$\frac{3}{8}$	1	$1\frac{1}{8}$	$1\frac{1}{4}$	$1\frac{3}{8}$
10	150.5	186.5	218.5	254	-
12	125	153.5	181.5	210	248
14	106	130	154	178	205
16	90	111.5	133	155	176.5
18	78	97.5	116.5	137	156
20	68	85.5	103.5	122.5	140.5
22	59.5	76	92	109	123.5
24	53	69	83	98.5	111.5
26	47.5	62.5	76	89	102
28	43.5	57.5	70	81.5	93
30	40	52.5	64.5	75	86
32	35.5	48	60	69	80
34	33.5	44.5	55.5	64	75
36	30.5	41	51	60	70
38	28	38.5	47.5	56	66
40	25.5	35.5	44	52.5	62
42	23.5	33	41	49	58.5
44	22	30.5	38.5	46	55
46	20	28.5	36	44	52
48	18.5	27	34	41.5	48.5
50	17	25	32	39	46.5
52	16	23.5	30	37	44.5
54	15	22	28.5	35	42.5
56	13.5	20.5	26.5	33.5	40.5
58	12.5	19	25	31.5	38.5
60	11.5	17.5	23.5	30	36.5
62	11	16.5	22	28	34.5
64	10	15.5	21	26.5	33
66	9	14	19.5	25	31
68	8	13	18	23.5	29.5
70	7.5	12.5	17.5	22	28

$$\text{Strength of yarn in pounds} = \frac{1600 (1 + \text{or} - .11a + \text{or} - .01b)}{c}$$

a = Difference in sixteenths of staple over or under one inch. Use + sign when over, — when under.

b = Difference in number of yarn above or below 28s. Use — sign when over 28s, + sign when below 28s.

c = Yarn count.

The above table represents the breaking strength found by testing a great many samples of yarn using the 120 yard skein after conditioning in an atmosphere containing 70 per cent relative humidity.

Breaking Strength of Combed Warp Yarn

Courtesy of F. P. Sheldon & Son

COUNTS	STAPLE				
	1 $\frac{1}{8}$	1 $\frac{1}{4}$	1 $\frac{3}{8}$	1 $\frac{1}{2}$	1 $\frac{5}{8}$
20	113	132.5	151.5	170	189
22	100	119	136.5	152.5	173
24	90	108.5	125	139.5	157
26	83	98.5	114	128	143.5
28	76.5	90	105	117.5	133
30	70.5	82.5	96	108	121.5
32	64.5	76.5	89	100	112
34	60	71	82.5	94	105
36	56	66.5	77.5	88	99
38	52	61.5	72.5	82	92.5
40	48	57.5	68	77.5	87
42	45	54	64	73	82
44	42	51	60	68.5	77.5
46	39.5	48	57	65	73.5
48	37.5	45.5	53.5	61.5	69
50	35	43	51	58.5	65.5
52	33	40.5	48	55.5	62
54	31	38.5	46	52.5	59
56	29.5	36.5	43.5	50.5	56.5
58	28	34.5	41	47.5	53.5
60	26.5	32.5	39.5	45.5	51
62	25	31	37.5	43.5	49
64	24	29.5	35.5	41.5	47
66	22.5	28	34	39.5	45
68	21.5	27	32.5	38.5	43.5
70	20	26	31	36.5	41.5
72	19	24.5	30	35	40
74	18	23.5	28.5	33.5	38.5
76	17	22.5	27.5	32	37.5
78	16.5	21.5	26.5	31	36
80	15.5	20.5	25.5	30	34.5
82	15	19.5	24.5	28.5	33
84	14	18.5	23	27.5	31.5
86	13	17.5	22	26.5	30.5
88	12.5	17	21	25.5	29.5
90	12	16	20	25	28.5
92	11	15.5	19.5	24	27.5
94	10.5	15	18.5	23	27
96	9.5	14	17.5	22	26
98	9	13.5	17	21	25.5
100	8.5	12.5	16.5	20	24.5
102	8	12	15.5	19.5	23.5
104	7.5	11.5	15	19	22.5
106	7	11	14.5	18	22
108	7	10.5	14	17.5	21.5
110	6.5	10	13.5	17	20.5
112	6	9.5	12.5	16.5	19.5
114	5.5	9	12	16	19
116	5.5	8.5	11.5	15.5	18.5
118	5	8	11	15	17.5
120	4.5	7.5	10.5	14	17

Strength of Combed Yarns computed from formula:

$$\frac{1750 (1 + .11a \pm .01b)}{c} = s$$

c = counts.

s = strength in pounds.

a = difference in sixteenths of staple over one inch.

d = difference in number of yarn above or below 28s, use — sign when over and + sign when under.

Correction Tables for Converting the Apparent Breaking Strength to a 6.5 Per Cent Basis

The "Correction Rates" of strength increase for various fabrics has been computed by Prof. George B. Haven¹ to be as follows:

FABRIC	Weight of Fabric in Ounces per Square Yard at 6 Per Cent Regain	Correction Rate
Cheesecloth	1.54 ¹	0.51
Osnaburg	8.10	2.67
Airplane wing fabric	4.00	1.32
Sheeting	5.48	1.81
Tire duck	17.30	5.71
Belt duck	29.10	9.60
Heavy duck	49.34	16.28

Correction tables for three of these fabrics have been made, based on the following formula:

$$\text{Corrected breaking strength} = \frac{\text{Apparent strength} \times [100 + ("X" \times 6.5)]}{100 + ("X" \times \text{actual regain at test})}$$

Where for sheeting $X=1.81$ for regains between 3 and 9 per cent.

Osnaburg $X=2.67$ for regains between 3 and 9 per cent.

Tire fabric $X=7.0$ for regains between 3 and 6.5 per cent.

$X=4.0$ for regains between 6.5 and 9 per cent.

¹ For complete data see National Association of Cotton Manufacturers' Transactions No. 110, pages 117-154.

Federal Specifications Board — Specifications for Cotton Materials

COMMODITY	Federal Specifications Board Number	Bureau of Standards Number
Absorbent cotton	288	—
Airplane cloth, cotton mercerized, Grade A	258b	C270
Asphalt-saturated woven cotton fabric for waterproofing	294	C287
Bandage, gauze, compressed	298	—
Bandage, plain gauze, roller, assorted	299	—
Bedspreads, crinkle	620	—
Belting, conveyor (stitched duck)	466	—
Bottle, hot-water, cloth-inserted	220a	C249
Bunting, cotton	611	—
Canvas cot, folding	240	—
Cheesecloth, bleached or semi-bleached	253b	C365
Cheesecloth remnants for wiping purposes	344	—
Cheesecloth, unbleached	252b	C258
Cheesecloth for wiping purposes	251a	C255
Cloth, abrasive, aluminum oxide	387a	—
Cloth, Birdseye, diaper	612	—
Cloth, emery	388a	—
Cloth, shade	555b	C364
Cloth, tracing	591	—
Cloth, tracing, printed	592	—
Cloths, wiping	260	C267
Cord, sash, cotton braided	528	—
Cotton waste, colored	263a	C263
Cotton waste, white	262a	C262
Denim, blue, indigo (shrunk)	256e	C265
Denim, blue, indigo (unshrunk)	257b	C266
Denim, brown (shrunk)	254e	C256
Denim, brown (unshrunk)	255b	C259
Drill, unbleached	557	C367
Duck, cotton, numbered	53	C136
Duck, light weight (army duck, gray)	159	C166
Duck, tent (special construction for bleaching or dyeing, gray)	160	C167
Flannel, canton	613	—
Gauze, plain	289	—
Hose, air brake, signal, and gaskets	43	—
Hose, chemical	47	—
Hose, divers'	44b	C289
Hose, fire, cotton rubber lined (couplings and gaskets)	38b	C114
Hose, gas	40b	C290
Hose, gasoline, rubber-metal	136a	C269
Hose, oil suction and discharge	63c	C209
Hose, pneumatic	41b	C307
Hose, spray	45	—
Hose, steam	49b	C268
Hose, tender (corrugated)	46e	C288
Hose, water braided	588	—
Hose, water suction (smooth bore)	50b	C292
Hose, water and wash deck	48e	C291
Hosiery sizes, measuring	92	—
Jeans, bleached	614	—

Federal Specifications Board — Specifications for Cotton Materials — (Concluded)

COMMODITY	Federal Specifications Board Number	Bureau of Standards Number
Netting, mosquito (unbleached bobbinet)	540a	C359
Oilcloth, table, white	498	C357
Packing, fabric condenser tube	99	—
Packing, rubber, cloth insertion	110a	C236
Pads, surgical, operating	230a	C245
Percale	556	—
Pillowcases, cotton, bleached	305	C277
Rags, colored cotton, for wiping machinery (sterilized)	259a	C261
Rags, white cotton, for wiping machinery (sterilized)	261a	C264
Ribbons, computing and recording machine	169a	C188
Ribbons, hectograph	168a	C187
Ribbons, typewriter	167a	C186
Ring cushions, cloth-inserted	226a	C254
Rope, cotton	447	C326
Rubber sheeting	233a	C253
Seams, stitches and stitching (price 20 cents)	384	C283
Shades, window, rollers, slats, cords and accessories	367b	C368
Sheeting, cotton, bleached, wide	303	C273
Sheeting, cotton, brown	301	C272
Sheeting, cotton, brown, wide	302	C278
Sheets, cotton, bleached (medium and high count sheeting)	304	C274
Sleeves, dredging	42	—
Tablecloths, cotton	500	C351
Textile materials, general specifications for (methods of physical and chemical tests)	345a	C293
Ticking, mattress and pillow	615	—
Tires, pneumatic, solid rubber and inner tubes	3c	C115
Towels, glass, cotton	616	—
Towels, huck (with woven name)	422	C313
Twine, cotton	530	—
Twine, cotton seine	529	—

Specifications bearing only a Federal Specifications Board number are in mimeograph form and can be obtained upon request from the Federal Specifications Board, Bureau of Standards, Washington, D. C.

Specifications bearing Bureau of Standards circular numbers or other Bureau publication numbers in addition to the Federal Specifications Board number are in printed form and must be purchased from the Superintendent of Documents at the prices indicated. In requesting specifications from the Superintendent of Documents the Bureau publication number must be stated.

The price of each printed specification is 5 cents per copy, unless otherwise noted.

Construction of Standard Fabrics ¹

ALBERTS

WIDTH	Weight (Yards per Pound)	COUNT		YARN NUMBER	
		Warp	Filling	Warp	Filling
35.0	5.40	64	72	29.0	39.0
35.0	5.10	64	80	29.0	40.0
35.0	4.40	64	80	28.0	30.0
35.0	4.00	68	80	27.0	29.0

BROADCLOTHS, PLY

35.0	4.50	124	68	2/80	2/110
37.0	4.40	140	76	2/92	2/100
37.0	4.50	144	76	2/100	2/100
37.5	4.00	134	61	2/80	2/80
37.5	4.35	144	80	2/94	2/110
37.5	4.40	158	66	2/100	2/100
37.5	4.50	144	76	2/100	2/100
38.0	4.20	114	71	2/80	2/80
38.5	4.14	150	68	2/100	2/90
40.0	4.25	140	78	2/100	2/100

BROADCLOTHS, SINGLE

35.0	4.00	124	64	35.0	40.0
37.0	4.30	128	60	40.0	45.0
37.0	4.40	112	60	40.0	33.0
37.0	4.40	128	68	44.0	44.0
37.0	4.50	144	76	50.0	50.0
37.5	4.15	144	76	50.0	40.0
37.5	4.50	132	76	50.0	45.0
38.5	4.25	144	76	50.0	45.0
39.0	5.00	144	76	60.0	60.0
43.0	5.40	112	64	60.0	50.0

BROADCLOTHS, SEMI

37.0	3.90	140	70	2/80	45.0
37.0	4.00	120	64	2/80	30.0
37.0	4.00	136	68	2/80	40.0
37.0	4.35	120	64	2/76	36.0
37.0	4.40	124	60	2/80	40.0
37.5	3.75	120	62	2/80	30.0
37.5	4.40	115	64	2/80	40.0
37.5	4.50	144	76	2/100	50.0
37.5	5.00	124	64	2/100	50.0
41.0	4.60	134	57	2/100	50.0

¹ Constructions may require slight variations to secure proper weights due to differences in conditions in individual mills.

Construction of Standard Fabrics¹—(Continued)**DRILLS**

WIDTH	Weight (Yards per Pound)	COUNT		YARN NUMBER	
		Warp	Filling	Warp	Filling
30.0	2.50	76	58	14.0	14.0
30.0	2.85	71	48	14.0	14.0
30.0	3.00	66	44	13.0	14.0
30.0	4.00	68	48	20.0	16.0
30.0	5.25	60	40	22.0	18.0
37.0	2.35	68	40	13.0	12.0
37.0	3.00	68	40	13.0	22.0
37.0	3.25	68	40	16.0	16.0
37.0	3.50	68	40	18.0	18.0
37.0	3.95	66	36	18.0	23.0
54.0	1.93	62	40	13.5	15.5

JEANS

29.5	3.75	84	56	21.0	21.0
30.0	4.00	84	56	21.0	27.0
31.5	3.22	96	64	21.0	24.0
32.0	3.31	96	64	22.0	24.5
36.0	3.40	100	64	24.0	36.0
38.0	2.95	96	64	22.0	30.0
38.0	3.15	84	56	21.0	26.0
38.0	2.85	96	64	22.0	26.0
39.0	3.00	96	64	24.0	28.0
58.0	2.25	84	56	22.0	28.0

ORGANDIES

30.0	10.75	96	96	60.0	130.0
33.0	16.00	60	64	80.0	90.0
35.0	10.00	96	100	80.0	100.0
36.0	9.00	112	112	80.0	120.0
36.0	10.66	96	104	80.0	130.0
37.0	8.00	100	124	80.0	100.0
40.0	13.00	72	64	80.0	110.0
40.0	13.50	76	68	80.0	110.0
45.0	11.40	72	68	80.0	110.0
50.0	7.20	88	80	80.0	80.0

PAJAMA CHECKS

28.0	5.71	74	64	34.0	24.0
31.5	7.10	60	52	29.0	38.0
36.5	4.00	88	88	29.0	41.0
36.5	4.70	72	80	30.0	41.0
36.5	5.20	72	66	30.0	40.0
36.5	5.75	64	60	30.0	39.0
37.0	4.00	88	80	30.0	38.0
38.0	4.00	88	80	29.0	42.0
38.0	4.50	76	72	29.0	40.0
38.5	4.60	72	74	28.5	40.0

¹Constructions may require slight variations to secure proper weights due to differences in conditions in individual mills.

Construction of Standard Fabrics¹ — (Continued)**PONGEE**

WIDTH	Weight (Yards per Pound)	COUNT		YARN NUMBER	
		Warp	Filling	Warp	Filling
34.0	7.00	72	100	80.0	41.0
43.0	4.90	76	104	80.0	40.0

POPLINS, SEMI

27.0	7.50	103	46	2/80	36.0
27.0	5.90	104	42	2/60	29.0
28.0	4.65	112	40	2/50	30.0
28.0	4.65	114	38	2/50	30.0
28.0	4.87	102	48	2/50	28.0
28.0	5.27	101	48	2/60	25.0
28.0	5.50	101	48	2/60	30.0
36.0	3.90	96	40	2/50	25.0
37.0	3.40	88	40	2/40	25.0
37.5	4.10	80	40	2/50	21.0

POPLINS, SINGLE

27.00	5.25	100	44	30.0	24.0
27.75	4.60	96	40	24.0	21.0
28.00	5.14	101	48	30.0	25.0
28.50	4.50	118	38	40.0	12.0
28.50	4.52	122	43	50.0	12.0
28.50	4.70	122	40	50.0	12.0
37.00	3.49	100	48	25.0	25.0
37.00	3.95	100	44	30.0	24.0
37.00	4.25	100	44	30.0	30.0
37.50	3.90	100	44	30.0	24.0
37.50	4.00	100	44	30.0	25.0

PRINT CLOTH

28.0	7.30	64	60	30.0	38.0
27.0	7.60	64	60	30.0	38.0
27.0	8.70	56	55	30.0	42.0
27.0	9.00	56	52	30.0	40.0
27.0	9.75	56	44	29.0	41.0
25.0	10.55	56	44	30.0	40.0
32.0	6.50	64	60	30.0	40.0
31.5	7.50	56	52	29.0	39.0
34.0	6.00	64	60	28.0	40.0
36.0	5.75	64	60	30.0	38.0
35.0	5.00	68	72	30.0	37.0
39.0	6.60	56	44	28.0	40.0
40.0	6.00	56	56	29.0	43.7
38.5	6.25	60	48	30.0	40.0
38.5	5.35	64	60	28.0	40.0
39.0	4.75	68	72	30.0	40.0
39.0	4.25	72	76	30.0	37.0
39.0	4.00	80	80	28.0	39.0
43.0	5.60	56	52	29.0	38.0
43.0	5.85	56	48	28.0	41.0
44.0	4.65	64	60	30.0	38.0

¹ Constructions may require slight variations to secure proper weights due to differences in conditions in individual mills.

Construction of Standard Fabrics ¹— (Continued)

SATEENS, FILLING

WIDTH	Weight (Yards per Pound)	COUNT		YARN NUMBER	
		Warp	Filling	Warp	Filling
31.5	5.50	64	88	32.0	37.0
37.5	5.25	64	72	28.0	42.0
37.5	4.70	64	88	29.0	42.0
37.5	4.37	64	104	34.0	38.0
39.0	4.20	64	104	34.0	38.0
39.0	4.00	64	112	28.0	42.0

SATEENS, WARP

29.0	4.20	112	64	28.0	30.0
34.0	3.60	108	60	28.0	26.0
34.0	3.00	112	64	22.0	28.0
38.0	5.09	200	96	70.0	95.0
38.0	6.50	128	68	60.0	70.0
38.0	5.75	140	72	60.0	70.0
38.0	5.75	140	76	60.0	70.0
39.0	5.75	168	88	60.0	100.0
43.0	3.35	160	96	52.0	44.0
54.0	1.05	96	64	13.5	11.0

SHEETINGS, NARROW

30.0	3.60	48	48	14.0	13.5
31.0	5.00	48	48	20.0	20.0
31.0	4.50	44	44	17.0	16.0
32.0	6.25	40	40	20.0	22.0
36.0	6.00	40	40	20.0	23.0
36.0	3.00	48	48	12.0	16.6
36.0	3.25	48	44	13.0	16.0
36.0	3.90	40	38	13.0	16.0
36.0	4.00	48	52	17.0	21.0
36.0	4.00	56	60	20.0	24.0
36.0	4.25	56	56	21.0	25.0
36.0	4.50	48	44	20.0	18.0
36.0	4.70	48	52	22.0	22.0
36.0	5.00	48	48	22.0	23.5
36.0	5.50	48	40	22.0	24.0
36.0	5.50	44	44	21.0	26.0
36.0	6.15	44	40	23.0	26.0
37.0	4.00	48	48	17.0	21.0
36.0	3.50	64	68	21.0	24.0
40.0	2.50	48	48	13.0	13.0
40.0	2.85	48	48	14.0	16.0
40.0	3.60	56	60	20.0	25.0
40.0	3.75	48	44	17.0	21.0
40.0	4.25	44	40	17.0	21.0
40.0	5.00	44	44	21.0	26.0
40.0	5.50	44	44	24.0	27.0
40.0	3.15	64	68	21.0	24.0

¹Constructions may require slight variations to secure proper weights due to differences in conditions in individual mills.

Construction of Standard Fabrics ¹— (Concluded)**SHEETINGS, WIDE**

WIDTH	Weight (Yards per Pound)	COUNT		YARN NUMBER	
		Warp	Filling	Warp	Filling
60.0	3.30	48	48	25.0	25.0
60.0	3.90	40	40	22.0	27.0
63.0	1.82	68	72	23.0	21.0
72.0	1.59	68	72	23.0	21.0
81.0	1.40	68	72	23.0	21.0
90.0	1.27	68	72	23.0	21.0
90.0	1.32	66	72	20.5	25.0
90.0	1.45	66	68	23.0	25.0
99.0	1.30	64	68	21.0	25.0
108.0	1.25	56	56	20.0	20.0
156.0	0.76	64	64	20.0	20.0

TOBACCO OR CHEESE CLOTH

36.0	13.50	32	24	30.0	42.0
36.0	13.00	32	28	30.0	43.0
36.0	12.00	32	28	30.0	37.0
36.0	10.50	36	32	30.0	37.0
36.0	10.20	40	32	30.0	38.0
36.0	9.65	40	36	28.0	38.0
36.0	9.20	44	36	29.0	38.0
36.0	9.20	40	40	29.0	40.0
36.0	8.50	44	40	30.0	37.0
36.0	8.10	44	44	29.0	38.0
36.0	7.75	48	44	29.0	38.0

TWILLS, THREE-LEAF FILLING

39.0	4.80	64	72	30.0	38.0
39.0	4.50	68	76	28.0	40.0
39.0	4.25	68	76	28.0	36.0
39.0	4.00	68	76	28.5	31.0
39.0	3.65	80	92	30.0	36.0
43.0	4.00	68	76	30.0	36.0

TWILLS, THREE-LEAF WARP

39.0	6.00	64	48	28.5	44.0
39.0	5.25	64	56	28.5	38.0
39.0	5.10	64	64	28.5	40.0
39.0	3.90	80	80	29.0	39.0
43.0	4.75	68	52	28.0	40.0
43.0	4.30	68	60	28.0	36.0

TWILLS, FOUR-LEAF

29.0	2.15	104	48	15.0	11.0
30.0	2.31	104	48	15.0	12.0
30.0	2.50	104	48	18.0	11.0
30.0	2.65	104	48	18.0	13.0
30.0	2.50	88	48	13.0	15.0
29.5	3.00	88	37	15.0	15.0
29.5	2.00	88	48	13.5	9.0
30.0	2.31	88	48	13.0	13.0
30.0	2.15	88	48	12.0	11.0
30.0	2.10	88	58	12.0	12.0
30.0	3.25	88	38	17.0	15.0
30.0	2.40	88	48	13.0	14.0

¹ Constructions may require slight variations to secure proper weights due to differences in conditions in individual mills.

Standard List of Wide and Sail Duck

The following table shows a list of ducks approved as standard by the Division of Simplified Practice and the Cotton Duck Association
[Pounds per Yard]

Width (inches)	2 0	1 0	1	2	3	4	5	6	7	8	9	10	11	12	Width (inches)
22	1.250	1.187	1.125	1.062	1.000	0.938	0.875	0.812	0.750	0.687	0.625	0.562	0.500	0.437	22
24	1.364	1.295	1.227	1.159	1.091	1.023	0.955	0.886	0.818	0.750	0.682	0.614	0.545	0.477	24
26	—	—	1.329	1.256	1.182	1.108	1.034	0.960	0.885	0.812	0.739	0.665	0.591	0.517	26
28	—	—	1.432	1.352	1.273	1.193	1.114	1.034	0.955	0.875	0.795	0.716	0.636	0.557	28
30	—	—	1.534	1.449	1.364	1.278	1.193	1.108	1.023	0.937	0.852	0.767	0.682	0.597	30
32	—	—	1.636	1.545	1.455	1.364	1.273	1.182	1.091	1.000	0.909	0.818	0.727	0.636	32
36	—	—	1.841	1.739	1.636	1.534	1.432	1.330	1.227	1.125	1.023	0.920	0.818	0.716	36
38	—	—	1.943	1.835	1.727	1.619	1.511	1.403	1.295	1.187	1.080	0.972	0.864	0.756	38
40	—	—	2.045	1.932	1.818	1.705	1.591	1.477	1.364	1.250	1.136	1.023	0.909	0.795	40
42	—	—	2.148	2.028	1.909	1.790	1.670	1.551	1.432	1.312	1.192	1.074	0.955	0.835	42
44	—	—	2.250	2.125	2.000	1.875	1.750	1.625	1.500	1.375	1.250	1.125	1.000	0.875	44
48	—	—	2.454	2.318	2.182	2.045	1.909	1.773	1.636	1.500	1.364	1.227	1.091	0.955	48
50	—	—	2.557	2.415	2.273	2.131	1.989	1.847	1.705	1.562	1.420	1.278	1.136	0.994	50
54	—	—	2.751	2.608	2.455	2.301	2.148	1.994	1.841	1.687	1.534	1.381	1.227	1.074	54
60	—	—	3.068	2.898	2.727	2.557	2.386	2.216	2.045	1.875	1.705	1.534	1.364	1.193	60
66	—	—	3.375	3.187	3.000	2.812	2.625	2.437	2.250	2.062	1.875	1.687	1.500	1.312	66
72	—	—	3.682	3.477	3.273	3.068	2.864	2.659	2.455	2.250	2.045	1.841	1.636	1.432	72
84	—	—	4.295	4.057	3.818	3.580	3.341	3.102	2.864	2.625	2.386	2.148	1.909	1.670	84
90	—	—	4.602	4.347	4.091	3.835	3.580	3.324	3.068	2.812	2.557	2.301	2.045	1.790	90
96	—	—	4.909	4.636	4.364	4.091	3.818	3.545	3.273	3.000	2.727	2.455	2.182	1.909	96
100	—	—	5.114	4.830	4.546	4.261	3.977	3.693	3.409	3.125	2.841	2.557	2.273	1.989	100
108	—	—	5.522	5.216	4.909	4.602	4.295	3.989	3.682	3.375	3.068	2.761	2.455	2.148	108
120	—	—	6.136	5.796	5.455	5.114	4.773	4.432	4.091	3.750	3.409	3.068	2.727	2.386	120
132	—	—	6.750	6.374	6.000	5.624	5.250	4.874	4.500	4.124	3.750	3.374	3.000	2.624	132
144	—	—	7.364	6.954	6.546	6.136	5.728	5.318	4.910	4.500	4.090	3.682	3.272	2.864	144

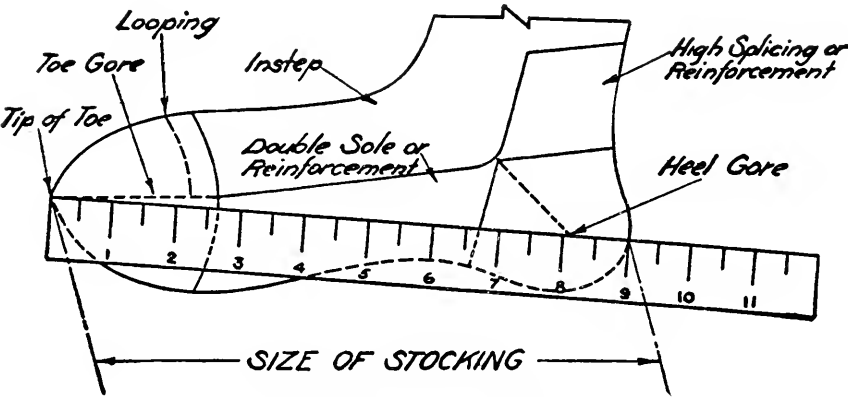
"The numbers in Roman type represent regular fabrics; all others, including widths intermediate to those listed, are specials. Only the list of regular numbers and widths to be carried in stock. Specials will be made up on order only in units of not less than 500 yards; and as far as possible the manufacture of specials will be restricted to units of 1,500 yards as representing the minimum at which operating efficiency is obtainable."

Standard Measurement of Hosiery Sizes

BUREAU OF STANDARDS CIRCULAR NO. 149

The method of measuring the size of circular knit hosiery may be defined as follows: After the hose has been boarded and pressed and appears in a flat and unwrinkled condition, place a ruler along a line in which the tip of the toe and the bottom of the heel gore are connected. The measured distance along this line from the tip of toe to the intersection with the back of the heel to the nearest half inch is the hosiery size. Preference should be given to the lower number; that is, if the exact measurement, as found by the system, is $10\frac{1}{4}$ inches exactly, it is desirable to call the stocking size 10.

Diagram showing application of ruler between the points selected, denoting size.



Approved method for measuring hosiery

This diagram shows the application of ruler to the hosiery

Standard Size of Bed Blankets

COTTON, WOOL, COTTON AND WOOL MIXED

The following sizes of bed blankets were adopted as standard by the Division of Simplified Practice and representatives of the blanket manufacturers on June 2, 1924:

SIZES IN INCHES			
Width		Length	
		Width	Length
54	.	76	84
60	.	76	90
60	.	80	80
60	.	84	80
64	.	76	84
66	.	80	90

Contract Sales Note for Staple Gray Goods

Form approved and adopted by The National Association of Cotton Manufacturers
and American Cotton Manufacturers' Association, 1910

Sold for account of

Number

To

Quantity:

yards (variation not to exceed 2 % allowed)	} Allowable variation in	
pieces of yards each		length of pieces <i>if</i>
bales of yards each		<i>special.</i>

In addition, buyer to take and seller to deliver if made: $\begin{cases} \text{\$ } \frac{\sigma}{\sigma} \text{ Seconds @} \\ \text{\$ } \frac{\sigma}{\sigma} \text{ Tailings at stated contract price if con-} \\ \text{tract is not renewed.} \end{cases}$

Quality:

Time of delivery: from date hereof _____
 _____ during each week, commencing week ending _____
 _____ during each month, beginning in the month of _____

Width in inches:

Count per inch: Warp Filling

Weight: $\left\{ \begin{array}{l} \text{No shipment to average } \frac{1}{2} \text{ lighter} \\ \text{No bale to be over } 1\frac{1}{2}\% \\ \text{No piece to be over } 3\frac{1}{2}\% \end{array} \right\}$ than Yards to the pound.

Price: _____ Cents per yard.

Terms of payment:

Net _____ days from date of delivery.

Net days from date of delivery less % for payment within days from date of delivery.

Place of delivery:

F. O. B. to carrier at _____ with _____ freight allowance.

F. O. B.

Special conditions:

Shipping instructions:

If the production of the seller shall be curtailed during the time above named, by strikes, lockouts, or unavoidable casualties, the deliveries shall be made and accepted in proportion to the production.

The provisions of paragraphs I, II and III, and the allowable variations from specifications as adopted by The American Cotton Manufacturers' Association and The National Association of Cotton Manufacturers, all as printed on the back hereof,¹ are accepted and agreed to as a part of this contract, unless otherwise stated herein.

This sale note is the entire contract between the buyer and seller, and any alteration in or changes from the printed form of this contract must appear on it in writing.

To _____ (Signed)

¹ See following page.

Paragraph I. Passing of Title on Delivery. — Unless otherwise specified, the title to goods sold passes to the buyer (subject to the right of stoppage *in transitu*): —

a. Upon delivery F. O. B. to carrier, consigned to buyer, and thereafter goods are at buyer's risk.

b. Upon arrival of goods at destination and delivery to buyer of bill of lading or of goods, in the case of goods to be delivered F. O. B. elsewhere than to carrier.

c. Upon delivery of indorsed bill of lading or of goods, in the case of goods consigned to seller's order.

d. Upon the separation of the goods and holding subject to buyer's order (the invoice to follow by due course of mail), in the case of goods to be held or if buyer fails to give shipping instructions.

Paragraph II. Storage and Insurance. — Goods invoiced and held subject to buyer's orders shall be at buyer's risk, but covered by fire insurance effected by sellers in reputable companies.

Paragraph III. Rejections and Claims. — The buyer cannot reject the goods for delay in delivery unless he notifies the seller within five business days from receipt of bill of lading, or of invoice if goods are to be held. When contract calls for delivery in instalments, the buyer cannot cancel the contract for any default in any one or more instalments not amounting to a substantial breach of contract, but may cancel or replace at seller's expense any delivery that is delayed.

Buyer cannot reject goods for defects in quality or other like defaults (a) if he cuts or converts them, nor (b) unless he notifies seller within ninety days from receipt by him or at finishing works of goods not held, or within ninety days after date of invoice if goods are invoiced and held; nor (c) unless such defects amount to a substantial breach of contract.

Loss of right to reject does not deprive the buyer of his right to claim damages, if any; but no recovery shall be had on any claim not made within one year from receipt of goods or from date of invoice if goods are held.

Allowable Variations from Contract Specifications.

Width. — The width shall not vary anywhere by more than $\frac{3}{8}$ of an inch below the stipulated width, nor more than $\frac{5}{8}$ of an inch above. The width shall not be uniformly less than the stipulated width, but must, in a majority of places in each piece, be equal to, or greater than, the stipulated width. Goods shall be measured at right angles to the selvages when laid open on a flat, horizontal surface and smoothed out by hand, but not stretched.

Warp Count. — Except within four inches of each selvege, (where exclusive of the selvege, the count must approximate that stipulated) the number of warp threads per inch shall not vary anywhere by more than one thread per inch below the stipulated count, nor by more than two threads per inch above. The number of threads in each piece must equal the stipulated count multiplied by the stipulated width plus the extra threads used in the selvege.

Filling Count. — The number of threads in the filling, or weft, shall not vary anywhere by more than three threads per inch below the stipulated count, nor by more than four above. In the case of sateens, when the count of filling exceeds the count of the warp, the allowance for variation above specified shall be increased by the same percentage that the filling count exceeds that of the warp count. In any case including sateens, the filling count per inch shall not run below the stipulated count throughout the piece, but must, in a majority of places in each piece, equal or be more than, the stipulated count.

Weight. — In case of controversy regarding the weight of goods, decision shall be based on goods which have been exposed for twenty-four hours to normal atmospheric conditions approximating a temperature of 70 degrees F. and a humidity of 70 per cent.

Identification of Rayons (Artificial Silks)

MICROSCOPICAL METHODS

The individual manufacturer, as well as the process by which rayon or artificial fibers are made, can be determined from a comparison of the cross-sections of the yarn in question with photomicrographs of standard samples.

CHEMICAL METHODS

(Committee D-13 American Society for Testing Materials)

To distinguish cellulose acetate from all other rayons:

(a) Twist fibers into a tight wad and then cautiously approach to a match flame, without being brought into contact with the flame.

Cellulose acetate rayons melt or fuse, forming a black knob, or globule, on the end, which precedes the small, sputtering, relatively slow-burning flame down the thread. If the flame be extinguished and the knob cooled, this will be found to be somewhat hard and resistant to crushing.

Nitro-cellulose, cuprammonium and viscose rayons do not melt back but burn quietly and readily like bleached cotton fibers, and the odor from the fumes is the same as that coming from burned cotton.

(b) Treat the sample with pure acetone.

Cellulose acetate rayon is soluble up to 1 per cent, while nitro-cellulose, cuprammonium and viscose rayons are insoluble.

(c) Dissolve in glacial acetic acid (water white).

Cellulose acetate rayon dissolves; on adding water, precipitates as milky unstable emulsion or translucent glutinous material.

Nitro-cellulose, cuprammonium and viscose rayons are all insoluble.

To distinguish nitro-cellulose rayons from viscose and cuprammonium rayons:

Treat the water-moistened yarn with a 1 per cent solution of diphenylamine in concentrated sulphuric acid (specific gravity 1.84).

Nitro cellulose rayon immediately assumes a blue color and dissolves in a few seconds, yielding a blue coloration.

Cuprammonium and viscose rayons are not colored blue.

To distinguish cuprammonium rayons from viscose rayons:

Prepare a bath containing 1 per cent of the sample weight of Pontamine Scarlet B or equivalent colors, using one-half gram per 200 cc. of water. Immerse samples into liquor simultaneously, heating to 65° C. for ten minutes. The samples may then be washed thoroughly and compared wet or dry.

The cuprammonium rayons stain heavier and the viscose rayons lighter.

Place 5 grams of the unknown sample of rayon (viscose or cuprammonium) together with 100 cc. of water and 3 cc. of concentrated sulphuric acid, in a flask, the mouth of which is covered with a piece of filter paper saturated with a 10 per cent solution lead acetate, then place the flask over a moderately boiling steam bath for four hours. If at the end of this period the exposed part of the lead acetate paper becomes stained with a brown or black color, the rayon is viscose rayon; if no coloration is obtained the sample is cuprammonium rayon.

Width of Some Standard Fabrics

The following is a list of the widths on which the weight of the fabrics listed are based:

	Inches
Single and double filling ducks	29
Enameling ducks	38, 46½, 51½, 61½, 63
Army ducks	28½
Shelter tent duck	35¼
Shoe duck	37
Tire duck	36
Hose duck	40
Rubber belt duck	42
Balata belt duck	36
Oil or stitched belt duck	36
Numbered duck (American)	22
Numbered duck (English)	24
Mitten flannels	33
Ticking	32
Osnaburg	30

Thrown Silk Rules to govern Transactions between Buyers and Sellers in the United States of America

Taken from Rules published by the Silk Association of America

ARTICLE I

General

SECTION 1. Nothing in the following rules shall be construed as waiving the right in individual transactions to make any special contrary agreement, but the rules shall govern in cases where no such special contract exists. . . .

ARTICLE II

Sales

SECTION 1. Sales of specified or identifiable lots of thrown silk, either from stock or for future delivery are cancelled by destruction or loss of such silks by fire, flood or any other causes beyond control of Seller, prior to delivery dates as called for by the contract. . . .

ARTICLE III

Deliveries

SECTION 1. Sales for delivery on a given date, demand delivery on the date specified. . . .

ARTICLE IV

Weights

SECTION 1. In the absence of stipulation as to weight, invoice weight at time of delivery or readiness to deliver at point of shipment shall apply, provided the weight does not exceed conditioned weight on European silks, conditioned weight plus 2% on all other silks, except Tsatlee Rereels, Haining Rereels, Native China Rereels, and other similar silks, which shall be conditioned weight plus 2½%. . . .

ARTICLE V

Boil-Off

SECTION 1. Boil-off percentage stipulations on all kinds of thrown silk are entirely a matter of mutual agreement between Buyer and Seller. . . .

ARTICLE VI

Twist

SECTION 1. In the absence of any twist stipulations, the following turns per inch shall govern all sales of thrown silks made from 13/15 and/or 14/16 denier raw silk:

2-thread Organzine, 16 first time, 14 second time	
3-thread Organzine, 16 first time, 12 second time	
Tram	2½ to 3½
2-thread Georgette Crêpe	65 to 70
Ordinary Crêpes	60 to 65

In the case of all other classes of thrown silk, the twist must be stipulated in contract. . . .

ARTICLE VII

Drammage

SECTION 1. In case of stipulated drammage, the variation above or below the average stated must not exceed 3%. In the case of silks like Tsatlee Rereels, Haining Rereels, Tussah and other similar grades, variation must be by special agreement between Buyer and Seller. . . .

ARTICLE VIII

Length of Skeins

SECTION 1. In the absence of stated length of skeins, the following will apply:

2-thread Organzine	. . . .	20,000 yards
3-thread Organzine	. . . .	10,000 yards
2-thread Tram	. . . .	15,000 yards
3-thread Tram	. . . .	10,000 yards
4-thread Tram	. . . .	7,500 yards
5-thread Tram	. . . .	5,000 yards

The above lengths will apply on thrown silk made from 13/15 and/or 14/16 denier, European, Japan, Canton and China Filature Silks only. On all other grades of thrown silk delivered in skeins, the length is optional with Seller unless stipulated in contract. . . .

ARTICLE IX

Responsibility of Buyer and Seller

SECTION 1. The Seller is under obligation to deliver thrown silks of contract quality, size, weight, etc., as defined in these rules. The Buyer is equally under obligation to examine and test the silk received or tendered for delivery under contract and promptly pass upon its quality, size, weight, etc., and its compliance with the contract. . . .

ARTICLE X

Selling Terms

SECTION 1. The rate of discount on thrown silk is 6 per cent per annum. . . .

ARTICLE XI

General Terms

SECTION 1. All prices are understood to be F. O. B. Seller's shipping point. . . .

OFFICERS AND MEMBERS OF THE ASSOCIATION

OFFICERS OF THE ASSOCIATION FROM THE FIRST ORGANIZATION

PRESIDENTS

EZEKIEL A. STRAW .	1865-78	CHARLES H. FISH .	1901-03
AMOS D. LOCKWOOD .	1878-80	HERBERT E. WALMSLEY	1903-05
JOHN KILBURN .	1880-83	JAMES R. MACCOLL .	1905-07
WILLIAM C. LOVERING .	1883-85	WM. D. HARTSHORNE .	1907-08
RICHARD GARSEED .	1885-86	CHARLES T. PLUNKETT	1908-10
JOSEPH S. LUDLAM .	1886-88	FRANKLIN W. HOBBS .	1910-12
HENRY F. LIPPITT .	1888-89	EDWIN F. GREENE .	1912-14
WALTER E. PARKER .	1889-92	ALBERT G. DUNCAN .	1914-16
ROBERT MCARTHUR .	1892-94	ALBERT FARWELL BEMIS	1916-18
EDWARD W. THOMAS .	1894-95	W. FRANK SHOVE .	1918-20
ALFRED M. GOODALE .	1895-96	RUSSELL B. LOWE .	1920-22
ARTHUR H. LOWE .	1896-97	ROBERT AMORY .	1922-24
RUSSELL W. EATON .	1897-98	MORGAN BUTLER .	1924-25
STEPHEN A. KNIGHT .	1898-99	WILLIAM B. MACCOLL	1925-27
FREDERICK E. CLARKE	1899-99	G. EDWARD BUXTON .	1927-28
DAVID M. THOMPSON .	1900-01	LINCOLN BAYLIES .	1928-

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EDWARD ATKINSON .	1876-78	CHARLES T. PLUNKETT	1907-08
A. G. CUMNOCK .	1877-80	GEORGE OTIS DRAPER .	1907-11
CHARLES NOURSE .	1878-81	FRANKLIN W. HOBBS .	1908-10
WILLIAM F. GOULDING .	1880-83	EDWIN F. GREENE .	1910-12
RICHARD GARSEED .	1881-85	FREDERICK A. FLATHER	1911-13
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ARNOLD B. SANFORD .	1888-91	GROSVENOR ELY .	1914-16
ROBERT MCARTHUR .	1889-92	W. FRANK SHOVE .	1916-18
SIMEON B. CHASE .	1891-93	RUSSELL B. LOWE .	1916-20
EDWARD W. THOMAS .	1892-94	JAMES THOMSON .	1918-22
ALFRED M. GOODALE .	1893-95	ROBERT AMORY .	1920-22
WILLIAM J. KENT .	1894-97	NATHAN DUFFEE .	1922-24
FRED C. McDUFFIE .	1895-00	JOHN SKINNER .	1922-24
HENRY T. WHITIN .	1897-00	RUSSELL H. LEONARD .	1924-27
CHAS. H. RICHARDSON .	1900-01	JOHN A. SWEETSER .	1924-27
GEORGE H. HILLS .	1900-02	ALFRED E. COLBY .	1927-28
HERBERT E. WALMSLEY	1901-03	PHILIP DANA .	1927-
ALFRED E. ADAMS .	1902-03	IRVING SOUTHWORTH .	1928-

DIRECTORS

DANIEL D. CROMBIE .	1865-68	RUSSELL W. EATON .	1896-97
JONES S. DAVIS .	1865-69	GEORGE H. HILLS .	1897-00
WILLIAM P. HAINES .	1865-69	CHAS. H. RICHARDSON .	1897-00
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FREDERICK E. CLARKE .	1869-75	HERBERT E. WALMSLEY	1900-01
A. G. CUMNOCK .	1869-77	WM. D. HARTSHORNE .	1901-03
JOHN KILBURN .	1870-80	JAMES R. MACCOLL .	1901-03
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WILLIAM H. JENNINGS .	1880-83	CHARLES T. PLUNKETT	1905-07
JOHN W. DANIELSON .	1881-85	ROSCOE S. MILLIKEN .	1905-08
WALTER E. PARKER .	1881-85	WILLIAM H. LOFTUS .	1905-10
WILLIAM E. BARROWS	1882-83	GEORGE OTIS DRAPER .	1906-07
CHAS. D. McDUFFIE .	1883-83	FRANKLIN W. HOBBS .	1906-08
RICHARD B. BORDEN .	1883-86	HENRY F. MANSFIELD .	1906-10
RUFUS A. MAXFIELD .	1883-86	ROBERT BEATTY .	1906-11
GEORGE W. WEEKS .	1883-86	EDWIN F. GREENE .	1907-10
HENRY S. HOWE .	1883-87	JOHN W. KNOWLES .	1907-10
HENRY F. LIPPITT .	1885-88	FREDERICK A. FLATHER	1907-11
O. S. BROWN .	1885-91	JOSEPH MERRIAM .	1908-11
WILBUR A. STILES .	1886-88	DAVID S. JOHNSTON .	1908-12
ROBERT MCARTHUR .	1886-89	FREDERICK B. MACY .	1910-14
STEPHEN N. BOURNE .	1886-91	ALBERT FARWELL BEMIS	1910-16
S. S. SPENCER .	1887-90	RUSSELL B. LOWE .	1910-16
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WILLIAM W. WHITIN .	1888-93	WILLIAM AMORY .	1911-14
ROBERT R. SMITH .	1889-92	W. FRANK SHOVE .	1911-16
ALFRED M. GOODALE .	1890-93	WILLIAM N. KIMBALL .	1911-17
HERMAN F. STRAW .	1891-93	ALBERT G. DUNCAN .	1912-13
WILLIAM J. KENT .	1891-94	WILLIAM M. BUTLER .	1912-14
FRED C. McDUFFIE .	1892-95	GROSVENOR ELY .	1913-14
GEORGE W. BEAN .	1892-95	WILLIAM A. MITCHELL	1914-17
FRANK M. MESSENGER	1893-95	ALEXANDER MAKEPEACE	1914-18
ALBERT F. KNIGHT .	1893-99	JOHN SULLIVAN .	1914-18
ARTHUR H. LOWE .	1894-96	PHILIP DANA .	1914-20
HENRY T. WHITIN .	1894-97	HERBERT LYMAN .	1916-19
HERBERT L. PRATT .	1895-98	P. Y. DENORMANDIE .	1916-19
STEPHEN A. KNIGHT .	1895-98	JOHN E. ROUSMANIERE	1916-22
JOHN ECCLES .	1895-99	WILLIAM B. MACCOLL	1917-18

THOMAS H. RENNIE .	1917-19	RUSSELL H. LEONARD .	1923-24
CHARLES L. GILLILAND	1917-20	JOHN A. SWEETSER .	1923-24
ALBERT BLUM . . .	1918-20	ANDREW S. WEBB .	1923-26
FREDERICK L. JENCKES	1918-21	C. F. BROUGHTON .	1923-28
JOHN SKINNER . . .	1918-22	ALBERT G. MASON .	1924-26
J. ARTHUR ATWOOD .	1918-24	W. S. PEPPERELL .	1924-28
CHARLES B. CHASE .	1918-23	W. IRVING BULLARD .	1924-
LEWIS DEXTER . . .	1918-23	JOHN L. BURTON . .	1924-
GROSVENOR ELY . . .	1918-23	JOHN S. LAWRENCE .	1924-
CHARLES M. HOLMES .	1918-24	JAMES SINCLAIR . .	1924-27
WILLIAM L. LYALL .	1918-23	E. KENT SWIFT . . .	1924-
JOHN E. McLOUGHLIN	1919-22	WILLIAM B. MACCOLL .	1925-25
MORGAN BUTLER . . .	1919-24	S. HAROLD GREENE .	1925-
A. W. DIMICK	1919-24	JAMES O. THOMPSON, Jr.	1925-28
NATHAN DUFEE	1920-22	DEXTER STEVENS . .	1925-
SAMUEL STEWART . . .	1920-23	ERNEST N. HOOD . .	1926-
E. KENT SWIFT	1920-23	FRED W. STEELE . .	1926-
ALLEN F. JOHNSON . .	1921-22	B. H. BRISTOW DRAPER	1927-
ALFRED E. COLBY . . .	1922-27	JOHN H. HOLT	1927-
PHILIP DANA	1922-27	CHARLES E. INCHES .	1927-
B. H. BRISTOW DRAPER	1922-24	FRANK J. NEILD . . .	1928-
JOHN A. PERKINS . . .	1922-28	AMORY COOLIDGE . .	1928-
JAMES THOMSON	1922-25	HENRY G. NICHOLS . .	1928-
ARTHUR R. DICKINSON	1923-25	WALTER WHIPPLE . .	1928-
R. H. I. GODDARD . . .	1923-25		

AUDITORS

BENJAMIN SAUNDERS .	1865-71	C. E. ROBERTS	1900-16
JOHN C. PALFREY . . .	1871-73	BOYDEN & STEACIE . .	1916-19
HENRY D. SULLIVAN .	1873-82	F. W. LAFRENTZ & Co.	1919-
J. HERBERT SAWYER .	1882-00		

SECRETARY AND TREASURER

AMBROSE EASTMAN . .	1865-94	C. J. H. WOODBURY . .	1894-1915
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SECRETARY

TREASURER

C. J. H. WOODBURY . .	1915-16	CHARLES H. FISH . . .	1915-16
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SECRETARY AND TREASURER

CHARLES H. FISH, 1916-17

SECRETARY

TREASURER

RUFUS R. WILSON . . .	1917-21	HERBERT LYMAN . . .	1917-18
HARRY C. MESERVE . .	1921-25	W. IRVING BULLARD . .	1918-
RUSSELL T. FISHER . .	1925-		

ALPHABETICAL LIST OF MEMBERS
ACTIVE, ASSOCIATE, HONORARY, JUNIOR TECHNICAL, LIFE
SUSTAINING, SUSTAINING REPRESENTATIVES
AND TECHNICAL
AS OF JULY 1, 1929

Ac. — Active As. — Associate Hon. — Honorary Jr. Tech. — Junior Technical S.R. — Sustaining Representative	L. — Life Tech. — Technical Sus. — Sustaining				Elected
Abercrombie, James H. "Rutland," Dorking Rd., Reigate, Surrey, Eng.			Ac.	Apr.	25, 1907
Aberfoyle Mfg. Co. Charles L. Gilliland, Treas., 1530 Bankers Trust Bldg., Philadelphia, Pa.			Sus.	May	22, 1917
Acushnet Mill Corp. Robert A. Bartlett, Treas., New Bedford, Mass.			Sus.	Nov.	21, 1918
Adam, Alexander E. Mgr. Canadian Cottons, Ltd., 429 James St., Hamilton, Ontario, Canada.			Ac.	Apr.	30, 1909
Adams, Edwin W. Lewiston Bleachery & Dye Works, Lewiston, Me.			Ac.	Apr.	26, 1928
Adams, Henry Shaw Sec.-Treas. The Springstein Mills, P. O. Box 442, Chester, S. C.			Ac.	Oct.	4, 1907
Adams, James A. Agent, Butler Mill, New Bedford, Mass.			Ac.	Oct.	27, 1927
Adams, Robert J. Pres. Adams Mfg. Co., 31-33 East 32d St., New York City.			Ac.	Oct.	18, 1923
Adams, William T. Treas. Adams Bros. Mfg. Co., Adams, Mass.			Ac.	Feb.	10, 1928
Aldrich Brothers Co. Charles T. Aldrich, Treas., P. O. Box 1134, Providence, R. I.			Sus.	Jan.	24, 1919
Aldrich, Charles T. Treas. Aldrich Brothers Co., P. O. Box 1134, Providence, R. I.			Ac.	Apr.	28, 1886
Algeo, Bradley C. Philadelphia Textile School, 320 So. Broad St., Philadelphia, Pa.			Ac.	Sept.	21, 1905
Algonquin Printing Co. William H. Jennings, Treas., Fall River, Mass.			Sus.	Nov.	1, 1918
Allen, Fred The Hamilton Cotton Co., Hamilton, Ontario, Canada.			Ac.	June	5, 1925
Allen, G. Bion Managing Director J. & P. Coats (R. I.), Inc., 117 Mulberry St., Pawtucket, R. I.			Ac.	Apr.	27, 1905

		Elected
Allen, John E.	Tech.	Apr. 16, 1926
The Textile Development Co., 80 Federal St., Boston, Mass.		
Allen, Lewis F.	As.	Apr. 28, 1910
Treas. Dinsmore Mfg. Co., Salem, Mass.		
American Printing Co.	Sus.	Jan. 7, 1918
Nathan Durfee, Asst. Treas., Fall River, Mass.		
Ames, John Ormsbee	{ L.	Sept. 21, 1900
Goddard Brothers, 50 So. Main St., Providence, R. I.		
Amory, Browne & Co.	Sus.	Sept. 18, 1917
Robert Amory, 48 Franklin St., Boston, Mass.		
Amory, John Austin	S.R.	Oct. 29, 1918
Geo. H. McFadden & Bro., 211 Congress St., Boston, Mass.		
Amory, Robert	S.R.	Sept. 18, 1917
Amory, Browne & Co., 48 Franklin St., Boston, Mass.		
Anderson, Clayton & Co.	Sus.	June 1, 1923
T. A. Davis, 45 Franklin St., Boston, Mass.		
Anderson, Thomas T.	Ac.	Apr. 16, 1926
Treas. Solway Dyeing & Textile Company, Pawtucket, R. I.		
Anderson, Will B.	As.	May 3, 1918
Mgr. Barber-Colman Co., Framingham, Mass.		
Anderson, William D.	Ac.	Apr. 29, 1915
Pres. Bibb Mfg. Co., Macon, Ga.		
Andres, Frederick H.	As.	Sept. 30, 1914
Treas. Frederick H. Andres, Inc., 45 Milk St., Boston, Mass.		
Andrews, Harold B.	As.	Apr. 16, 1926
J. P. Rhodes Company, 24 N. Main St., Providence, R. I.		
Androscoggin Mills	Sus.	July 23, 1917
Lewiston, Me.		
Appleton, William C., Jr.	As.	June 14, 1926
The Viscose Company, 1017 Hospital Trust Bldg., Providence, R. I.		
Armitage, Joshua D.	Ac.	Apr. 26, 1906
Taylor, Armitage & Eagles, Inc., 120 Broadway, New York City.		
Arnold, C. H.	Ac.	Apr. 6, 1928
Supt. Suncook Mills, Suncook, N. H.		
Arnold, E. H.	Ac.	May 4, 1920
Asst. Treas. Berkshire Fine Spinning Associates, Inc., Adams, Mass.		
Ashland Cotton Co.	Sus.	May 12, 1917
Grosvenor Ely, Pres., Norwich, Conn.		
Ashworth, Henry	Ac.	Apr. 28, 1897
Parker Mill, Fall River, Mass.		
Ashworth, Robert	As.	Oct. 25, 1928
Ashworth Brothers, Inc., Fall River, Mass.		
Atkinson, E. W.	Ac.	Oct. 27, 1886
Atkinson, Haserick & Co., 152 Congress St., Boston, Mass.		
Atwood, J. Arthur	Ac.	Oct. 28, 1891
Treas. Ponemah Mills, 930 Hospital Trust Bldg., Providence, R. I.		
Ayer, Nathaniel F.	Ac.	Apr. 25, 1901
Treas. Nyanza Mills, 77 Franklin St., Boston, Mass.		

		Elected	
Babcock, Frederic L.	Editor, Fibre & Fabric, 465 Main St., Cambridge, Mass.	S.R.	Apr. 6, 1922
Baetjer, Howard	Pres. Mt. Vernon-Woodberry Mills, 506 Continental Bldg., Baltimore, Md.	Ac.	May 3, 1918
Bailey, C. E.	Manager, Franklin Weaving Company, Box 96, Franklin, Mass.	Ac.	Apr. 6, 1925
Bailey, Harry L.	Wellington, Sears & Co., 93 Franklin St., Boston, Mass.	Ac.	Oct. 2, 1913
Bailey, Joseph W.	Agt. Booth Mfg. Company, New Bedford, Mass.	Ac.	Apr. 23, 1903
Baldwin, James	Asst. to Treas. Lorraine Mfg. Company, Pawtucket, R. I.	As.	June 14, 1926
Baldwin, Luther C.	Pres. U. S. Bobbin & Shuttle Co., 57 Eddy St., Providence, R. I.	As.	Sept. 17, 1910
Ballard, Joseph W.	Treas. Griswoldville Mfg. Co., Griswoldville, Mass.	S.R.	Jan. 21, 1918
Balmer, John T.	Supt. Merchants Mfg. Company, Fall River, Mass.	Ac.	June 5, 1925
Bancroft, John, Jr.	Sales Mgr. Joseph Bancroft Sons Co., 290 Broadway, New York City.	Ac.	Aug. 3, 1921
Banks, Jonas	New England Southern Corp., 89 Broad St., Boston, Mass.	Ac.	Jan. 6, 1928
Bannon, John F.	Pres. Defiance Bleachery, Barrowsville, Mass.	Ac.	May 3, 1918
Barber-Colman Co.	Howard D. Colman, Pres., Rockford, Ill.	Sus.	Sept. 10, 1917
Barker, Harold R.	O. S. Hawes & Brother, P. O. Box 733, Fall River, Mass.	As.	Apr. 26, 1928
Barnard, Elliott H.	Barnard & Company, 38 Chauncy St., Boston, Mass.	Ac.	Apr. 26, 1928
Barnard Mfg. Co.	J. Edward Newton, Treas., Fall River, Mass.	Sus.	Nov. 1, 1918
Barnes, Arthur B.	Supt. Cotton Mills Div., American Printing Co., Fall River, Mass.	Ac.	Feb. 10, 1928
Barnes, Joel M.	Barnes Textile Service Co., 101 Milk St., Boston, Mass.	As.	Sept. 29, 1911
Barnwell, Elliott H.	Pres. Barnwell & Co., 313 Ohio Bldg., Akron, Ohio.	Ac.	May 3, 1918
Barr, Walwin	6 Odell St., Yonkers, New York.	As.	Apr. 30, 1914
Barrell, William L.	Treas. Lawrence Duck Co., Lawrence, Mass.	Ac.	Apr. 28, 1910
Barrett, W. Emerson	Treas. Maverick Mills, 144 Addison St., East Boston, Mass.	Ac.	Nov. 23, 1925
Barrington Associates	G. R. Hawes, Treas., 1 Park Ave., New York City.	Sus.	May 3, 1929
Barrows, Allan	Treas., Gosnold Mills Co., New Bedford, Mass.	Ac.	July 15, 1922
Bartlett, Edwin N.	Pres. The Edwin Bartlett Co., North Oxford, Mass.	Ac.	Apr. 29, 1891

		Elected
Bartlett, Robert A.	Treas. Acusinet Mill Corp., New Bedford, Mass.	S.R. Nov. 21, 1918
Bassett, C. C. Jr.	The Viscose Company, 171 Madison Ave., New York City.	S.R. Jan. 17, 1927
Batchelder, Nelson A.	Empire Cotton Mills, Ltd., Welland, Ontario, Canada.	Ac. Sept. 30, 1914
Batchelor, James F.	Supt. Dwight Mfg. Co., Chicopee, Mass.	Ac. June 8, 1928
Bates, Daniel Moore	Pres. Bates, Inc., 112 North Broad St., Philadelphia, Pa.	Ac. Apr. 27, 1898
Bates Mfg. Co.	H. deForest Lockwood, Treas., 60 Congress St., Boston, Mass.	Sus. Sept. 18, 1917
Bauldry, Lyman C.	Dept. Mgr. The Pairpoint Corp., New Bedford, Mass.	As. Apr. 5, 1921
Baylies, Lincoln	Amory, Browne & Co., 48 Franklin St., Boston, Mass.	Ac. June 14, 1926
Baylies, Walter C.	Amory, Browne & Co., 48 Franklin St., Boston, Mass.	Ac. Oct. 20, 1917
Beacon Mfg. Co.	Charles D. Owen, Treas., New Bedford, Mass.	Sus. Nov. 7, 1917
Beal, W. DeFord	Cooper & Brush, Inc., 53 State Street, Boston, Mass.	As. May 1, 1924
Bean, Frank A.	Asst. Agt. American Mfg. Co., Victory Mills, Victory Mills, N. Y.	Ac. Apr. 6, 1923
Beede, Herbert G.	97 Cottage St., Pawtucket, R. I.	Ac. May 4, 1920
Belamose Corporation, The	Earle L. Milliken, Treas. & Gen. Mgr., Rocky Hill, Conn.	Sus. May 13, 1927
Bell, Colin C.	National Vulcanized Fibre Co., Maryland Ave. & Beech St., Wilmington, Del.	As. Apr. 29, 1896
Bemis, Albert Farwell	Chairman, Bemis Bro. Bag Co., 40 Central St., Boston, Mass.	{ L. Apr. 23, 1903 Apr. 13, 1911
Benjamin, Edward B.	Pres. E. V. Benjamin Co., Maginnis Cotton Mills, New Orleans, La.	Ac. May 20, 1919
Bennett, E. Howard	American Wool & Cotton Reporter, 530 Atlantic Ave., Boston, Mass.	As. Apr. 30, 1914
Berkshire Fine Spinning Associates, Inc.	Gilbert T. Thompson, Pres., Adams, Mass.	Sus. May 12, 1917
Best, Edward H.	Edward H. Best & Co., P. O. Box 2207, Boston, Mass.	As. Apr. 23, 1903
Billings, Dwight B.	Pacific Mills, 24 Federal St., Boston, Mass.	Ac. Oct. 14, 1926
Bishop, Frederick H.	Universal Winding Co., 95 South St., Boston, Mass.	As. Apr. 26, 1900
Bishop, Robert	Treas. Robert Bishop Mfg. Co., 157 W. Sixth St., So. Boston, Mass.	Ac. Apr. 26, 1906
Biswas, Kshitish Chandra	Massachusetts Institute of Technology, Cambridge, Mass.	Jr. Tech. June 8, 1928
Blake, Edmund E.	Saco-Lowell Shops, Biddeford, Me.	As. Oct. 2, 1902

	Elected
Blake, Francis P. Bay State Belting Co., 349 Congress St., Boston, Mass.	As. May 3, 1921
Blanchard, Fessenden S. Asst. to Treas. Pacific Mills, 24 Thomas St., New York City.	Ac. Oct. 5, 1920
Blum, Albert Treas. United Piece Dye Wks., Lodi, N. J.	S.R. Feb. 12, 1918
Boardman, Richard Supt. Osborn Mills, Fall River, Mass.	Ac. Sept. 11, 1912
Bogert, Theodore P. Sec. Mfrs. Mut. Fire Ins. Co., Providence, R. I.	As. Apr. 13, 1911
Bolinger, John Vice Pres. National Shawmut Bank, Boston, Mass.	As. Dec. 12, 1918
Bolton, Wright Acushnet Mill Corp., New Bedford, Mass.	Ac. April 15, 1927
Booth, Joseph W. Supt. Auburn Woolen Co., Auburn, N. Y.	Ac. Apr. 25, 1907
Boott Mills Frederick A. Flather, Treas., 79 Milk St., Boston, Mass.	Sus. July 17, 1917
Borden, Bertram H. Pres. American Printing Co., P. O. Box 1194, City Hall Sta., New York City.	Ac. May 3, 1918
Borden, Charles N. Treas. Richard Borden Mfg. Co., Fall River, Mass.	Ac. Apr. 25, 1907
Borden, Jefferson, Jr. Fall River Bleachery, Fall River, Mass.	Ac. May 3, 1918
Borden, Richard Mfg. Co. Charles N. Borden, Treas., Fall River, Mass.	Sus. July 17, 1917
Borden, Spencer, Jr. Pres. & Treas. Fall River Bleachery, P. O. Box 1, Fall River, Mass.	Ac. Apr. 27, 1916
Boston Mfg. Co. George Summersby, Treas., 48 Franklin St., Boston, Mass.	Sus. May 31, 1917
Bourne Mills George Delano, Treas., Fall River, Mass.	Sus. May 1, 1920
Boutelle, Eugene G. Lybrand Ross Bros. & Montgomery, 80 Federal St., Boston, Mass.	As. July 30, 1926
Bowen, Amos Miller Treas. U. S. Ring Traveler Co., 159 Aborn St., Providence, R. I.	As. Apr. 6, 1923
Bowen, Elmer L. Agt. Appleton Co., Anderson, S. C.	Ac. Oct. 29, 1918
Bowler, Laurence R. 77 Franklin St., Boston, Mass.	Ac. June 1, 1923
Boyd, Forest W. Nyanza Mills, Woonsocket, R. I.	Ac. Oct. 27, 1927
Boyd, George A. Treas. Appleton Co., P. O. Box 2284, Boston, Mass.	Ac. May 3, 1920
Boyd, John Schofield John S. Boyd Co., Water St., Williamstown, Mass.	Ac. Sept. 23, 1909
Boyd, William V. Mgr. The Canadian Cottons, Ltd., Cornwall, Ontario, Canada.	Ac. Apr. 26, 1906
Boys, Robert W. Supt. Cotton Division, Farr Alpaca Company, Holyoke, Mass.	Ac. June 14, 1926

		Elected
Bradbury, James W.	Tech.	Apr. 16, 1926
The Textile Development Co., 80 Federal St., Boston, Mass.		
Bradbury, Thomas	Ac.	May 3, 1918
Supt. Wamsutta Mills, New Bedford, Mass.		
Bradley, Walter H.	Ac.	Apr. 28, 1910
Boston, Mass.		
Brady, Chas. E.	S.R.	Nov. 21, 1918
Treas. Potomska Mills Corp., New Bedford, Mass.		
Brady, Frank A.	Ac.	Oct. 20, 1917
Supt. Stevens Mfg. Co., 914 Rock St., Fall River, Mass.		
Bragdon, Lord & Nagle Co., Inc.	Sus.	Mar. 1, 1918
Henry G. Lord, Pres., 65 Franklin St., Boston, Mass.		
Brayton, Frank L.	Ac.	Nov. 13, 1924
Sales Mgr. Fitchburg Yarn Co., Fitchburg, Mass.		
Brayton, Israel	S.R.	July 30, 1917
Treas. Lincoln Mfg. Co., Fall River, Mass.		
Brewer, Edward S.	As.	Oct. 25, 1928
Curtiss Flying Service, 35 Congress St., Boston, Mass.		
Brierley, Joseph H.	Ac.	Sept. 21, 1905
Wm. H. Lorimer & Sons Co., Ontario and Lawrence Sts., Philadelphia, Pa.		
Briggs, George T.	Ac.	Apr. 24, 1902
Pres. & Gen. Mgr. The Briggs Mfg. Co., Voluntown, Conn.		
Brightman, Donald J.	Ac.	June 1, 1923
Asst. to Mgr. The Ninigret Co., 32 Central Ave., Pawtucket, R. I.		
Broadbent, James T.	Ac.	Apr. 28, 1904
Pres. & Gen. Mgr. Standard Textile Products Co., 320 Broadway, New York City.		
Bromley, Ernest	Ac.	Apr. 28, 1910
Agt. Whitman Mills, New Bedford, Mass.		
Bromley, Joseph H.	Ac.	Sept. 21, 1905
Chairman, Quaker Lace Co., Philadelphia, Pa.		
Brooks, Clarence B.	Ac.	May 13, 1927
Vice Pres. Utica Steam and Mohawk Valley Cotton Mills, Chadwicks, N. Y.		
Broughton, C. F.	Ac.	Oct. 20, 1917
Treas. Wamsutta Mills, New Bedford, Mass.		
Brown, Charles N.	Ac.	Oct. 29, 1918
Pres. & Treas. The Lincoln Cotton Mill Co., Evansville, Ind.		
Brown, Frederick R.	S.R.	Mar. 4, 1927
Du Pont Rayon Company, 2 Park Ave., New York City.		
Brown, George G.	As.	Dec. 27, 1918
Treas. The David Brown Co., Foster & Market Sts., Lawrence, Mass.		
Brown, M. R.	S.R.	Aug. 12, 1918
Treas. Davol Mills, Fall River, Mass.		
Brown, Stuart F.	As.	Mar. 2, 1922
Agt. Whitinsville Spinning Ring Co., Whitinsville, Mass.		
Bryant, Fred C.	As.	May 1, 1924
Curtis & Marble Machine Co., 200 Fifth Ave., New York City.		
Buckley, Charles E.	Ac.	Apr. 26, 1917
Supt. Gosnold Mills Co., 24 Jenny Lind St., New Bedford, Mass.		
Buckley, William H.	Ac.	Apr. 30, 1909
Mfg. Agt. The Baltic Mills Co., Baltie, Conn.		

		Elected
Bucklin, Harris H.	Asst. Treas. Interlaken Mills, Phenix, R. I.	S.R. Oct. 29, 1918
Budlong, Frederick R.	Supt. Coventry Co., Anthony, R. I.	Ac. Apr. 24, 1923
Bullard, W. Irving	73 Tremont St., Boston, Mass.	Ac. Sept. 11, 1912
Bunker, Gordon	Bliss, Fabyan & Co., 32 Thomas St., New York City.	Ac. Oct. 14, 1926
Burgess, Robert	3 Bradford Court, Newton Centre, Mass.	Ac. Apr. 27, 1892
Burke, John Edward	The Textile Development Co., 80 Federal St., Boston, Mass.	Tech. Oct. 25, 1928
Burnham, Alfred H.	P. O. Box 38, Station F, Baltimore, Md.	Ac. Apr. 26, 1900
Burnham, Hervey	P. O. Box 503, Suncook, N. H.	Ac. Apr. 27, 1899
Burns, Alfred	Supt. West Boylston Mfg. Co., Easthampton, Mass.	Ac. Oct. 29, 1918
Burns, William H.	Victory Mills, Victory Mills, N. Y.	Jr. Tech. Jan. 17, 1927
Burton, Harry H.	Agt. Slater Mills, Inc., Webster, Mass.	Ac. June 14, 1926
Burton, John L.	Agt. Nashawena Mills, New Bedford, Mass.	Ac. Apr. 23, 1903
Butler, Arthur Cecil	Leigh & Butler, 232 Summer St., Boston, Mass.	As. Apr. 28, 1904
Butler Mill	Morgan Butler, Treas., New Bedford, Mass.	Sus. Oct. 6, 1921
Butler, Morgan	Treas. Butler Mill, New Bedford, Mass.	Ac. Apr. 30, 1914
Butler, Obadiah	Connecticut Mills Co., Danielson, Conn.	Ac. Sept. 13, 1906
Butler, William M.	Pres. Butler Mill, 77 Franklin St., Boston, Mass.	Ac. Apr. 28, 1910
Butterworth, Harry W.	Pres. H. W. Butterworth & Sons Co., York & Cedar Sts., Philadelphia, Pa.	As. Oct. 28, 1897
Butterworth, H. W., & Sons Co.	Harry W. Butterworth, Pres., Philadelphia, Pa.	Sus. Sept. 12, 1917
Butterworth, Samuel T.	Agt. The Lawton Mills Corp., Plainfield, Conn.	Ac. Sept. 21, 1905
Buxton, G. Edward	Pres. B. B. & R. Knight Corp., 715 Hospital Trust Bldg., Providence, R. I.	Ac. Apr. 24, 1923
Buzzell, William O.	Agt. Wamsutta Mills, New Bedford, Mass.	Ac. Oct. 27, 1927
Cadwell, William H.	Agt. Nashua Mfg. Co., Jackson Mill, Nashua, N. H.	Ac. Apr. 26, 1900
California Cotton Mills Co.	J. R. Millar, Gen. Mgr., Oakland, Calif.	Sus. Feb. 8, 1921

		Elected	
Campbell, Ronald B.	Gluck Mills — Wellington, Sears & Co., 65 Worth St., New York City.	Ac.	July 31, 1928
Carpenter, Chester W.	John Farnum Co., Lancaster, Pa.	Ac.	May 1, 1924
Carpenter, Frank L.	Treas. Davis Mills, Fall River, Mass.	Ac.	May 3, 1918
Carpenter, Lewis M.	Treas. Ashland Cotton Co., Jewett City, Conn.	Ac.	Apr. 7, 1919
Cartledge, Francis J.	Durham Hosiery Mills, Durham, N. C.	Ac.	Nov. 10, 1922
Catterall, John	Agt. New Bedford Spinning Company, New Bedford, Mass.	Ac.	Apr. 16, 1926
Chace, Arnold B.	Treas. Valley Falls Co., Albion, R. I.	Ac.	Apr. 26, 1906
Chace, Benjamin C.	Gen. Mgr. Crown Mfg. Co., Pawtucket, R. I.	Ac.	Sept. 21, 1905
Chace, Richard B.	Treas. Shawmut Mills, Fall River, Mass.	S.R.	Dec. 3, 1918
Chapman, Laurance D.	Asst. Treas. Hill & Cutler Co., New Bedford, Mass.	S.R.	Mar. 7, 1924
Chapman, Robert	Pres. Cherew Cotton Mills, Inc., Cherew, S. C.	Ac.	Apr. 13, 1911
Chase, Charles A.	Mgr. Industrial Dept., General Electric Co., 84 State St., Boston, Mass.	As.	June 2, 1922
Chase, Charles B.	Gen. Mgr. Stevens Mfg. Co., P. O. Box 45, Fall River, Mass.	Ac.	Apr. 17, 1908
Chase, Fred L.	F. A. Chase & Co., 253 West Exchange St., Providence, R. I.	As.	Mar. 2, 1923
Chase, Raymond H.	Supt. Potter Fine Spinners, Inc., Pawtucket, R. I.	Ac.	Oct. 25, 1928
Chase, Simeon B.	Treas. King Philip Mills, Fall River, Mass.	Ac.	Apr. 21, 1875
Chicopee Mfg. Corp.	Charles A. McCormick, Treas., New Brunswick, N. J.	Sus.	Sept. 12, 1917
Chidsey, John T.	Pres. & Treas. The Root Co., Church St., Bristol, Conn.	As.	June 15, 1923
Chisholm, Ralph L.	Universal Winding Co., 95 South St., Boston, Mass.	Ac.	Mar. 22, 1929
Church, B. LeBaron	Sales Mgr. New Bedford Cotton Waste Co., 43 Church St., New Bedford, Mass.	Ac.	Nov. 13, 1924
City Mfg. Corp.	John B. Strongman, Treas., New Bedford, Mass.	Sus.	July 17, 1917
Clapp, Charles E.	Cynthia Mills, 16 New St., East Boston, Mass.	Ac.	May 24, 1929
Clark, Avery B.	Supt. Merrimaek Mfg. Co., Lowell, Mass.	Ac.	Apr. 27, 1905
Clark, George P.	Pres. Columbia Narrow Fabric Co., Shannock, R. I.	Ac.	Apr. 16, 1926
Clayton, William L.	Anderson, Clayton & Co., Houston, Tex.	{ L.	June 1, 1923 June 1, 1923

Clexton, Thomas J. 131 State St., Boston, Mass.	As.	Elected Sept. 13, 1906
Coates, J. & P. (R. I.), Inc. G. Bion Allen, Managing Dir., Pawtucket, R. I.	Sus.	Oct. 27, 1927
Coates, Wallace B., Jr. Agt. Farwell Bleachery, North Andover, Mass.	Ac.	May 3, 1918
Cobb, F. S. Pres. Seamans & Cobb Thread Co., Hopkinton, Mass.	Ac.	June 5, 1925
Cobb, W. C. Supt. Ware Shoals Mfg. Co., Ware Shoals, S. C.	Ac.	Apr. 26, 1906
Coburn, James E. Agt. Androscoggin Mills, Lewiston, Me.	Ac.	Oct. 4, 1907
Coffin, Langdon Purchasing Agt. Samson Cordage Wks., 144 Bellevue Ave., Newton, Mass.	Ac.	Sept. 29, 1911
Coffin, Melvin H. National Ring Traveler Co., Providence, R. I.	As.	Oct. 2, 1902
Colby, Alfred E. Treas. Pacific Mills, 24 Federal St., Boston, Mass.	Ac.	Apr. 6, 1922
Coleman, Philip F. Sec. John Farnum Co., Philadelphia, Pa.	S.R.	Oct. 5, 1923
Collins, John A. Supt. Suncook Mills, Suncook, N. H.	Ac.	Apr. 6, 1928
Colman, Howard D. Pres. Barber-Colman Co., Rockford, Ill.	As.	Apr. 27, 1905
Colquhoun, M. W. Box 1587, Boston, Mass.	Ac.	Aug. 3, 1921
Comins, Frank B. American Moistening Co., 79 Milk St., Boston, Mass.	Ac.	Oct. 28, 1891
Connor, Edward E. The Viscose Company, Providence, R. I.	As.	May 3, 1929
Cook, Albion C. Treas. Wampanoag Mills, Fall River, Mass.	Ac.	Nov. 10, 1922
Cook, Edward H. Treas. Quissett Mills, New Bedford, Mass.	Ac.	Apr. 28, 1910
Cook, G. Arthur Treas. West Boylston Mfg. Co., 265 Main St., Easthampton, Mass.	Ac.	Apr. 25, 1907
Cook, Kenneth B. Manville Jenckes Co., Pawtucket, R. I.	As.	July 15, 1922
Cooley, Fred A. Supt. Atlantic Mills, 112 Warrington St., Providence, R. I.	Ac.	Apr. 30, 1909
Coolidge, Amory Asst. Treas. Pepperell Mfg. Co., P. O. Box 5075, Boston, Mass.	Ac.	Oct. 14, 1925
Coon, J. L. Atkinson, Haserick & Co., 152 Congress St., Boston, Mass.	As.	May 3, 1918
Cooper, Archie C. Sales Dir. Oliver Johnson & Co., Inc., New Bedford, Mass.	As.	Oct. 27, 1927
Cooper, James A. Whitin Machine Works, Whitinsville, Mass.	As.	Sept. 13, 1906
Cooper, James M. Manville Jenks Co., Manville, R. I.	Jr. Tech.	Jan. 17, 1927

		Elected	
Corn Products Refining Co.	Sus.	Mar. 2, 1918	
Charles P. Slocum, 47 Farnsworth St., Boston, Mass.			
Cornell Mills	Sus.	July 20, 1918	
Robert W. Zuill, Treas., Fall River, Mass.			
Corr, Peter H.	Ac.	Apr. 24, 1895	
Treas. Greenwich Bleachery, Taunton, Mass.			
Cottrell, B. S.	As.	May 3, 1918	
Parks-Cramer Co., 1102 Old South Bldg., Boston, Mass.			
Courtney, Paul	S.R.	Jan. 25, 1929	
Lee, Higginson and Company, 70 Federal St., Boston, Mass.			
Cowell, Richard	Ac.	Apr. 24, 1902	
Agt. Greylock Mills, A. B. C., 33 Southworth Ave., Williamstown, Mass.			
Coxen, Harold M.	S.R.	Feb. 21, 1918	
Hoosac Cotton Mills, North Adams, Mass.			
Cramer, Stuart W.	Ac.	Apr. 26, 1906	
Pres. Cramerton Mills, Inc., Cramerton, N. C.			
Cranska, Lucius B.	Ac.	Sept. 21, 1905	
Pres. The Floyd Cranska Thread Co., Moosup, Conn.			
Crawford, Dana R.	As.	Oct. 14, 1925	
Sales Agt. U. S. Bobbin & Shuttle Co., 57 Eddy St., Providence, R. I.			
Crocker, Paul E.	Ac.	Jan. 17, 1927	
Controller, Pepperell Mfg. Co., 160 State St., Boston, Mass.			
Crompton & Knowles Loom Works	Sus.	July 20, 1918	
Homer Gage, Pres., Worcester, Mass.			
Cronkhite, W. W.	S.R.	May 24, 1917	
General Electric Co., Schenectady, N. Y.			
Crowe, Thomas	Tech.	May 3, 1929	
The Textile Development Company, 80 Federal St., Boston, Mass.			
Crowley, Stephen H.	Ac.	Aug. 10, 1927	
Asst. Gen. Mgr. Lewiston Bleachery & Dye Works, Lewiston, Me.			
Crown Mfg. Co.	Sus.	Oct. 10, 1918	
Benjamin C. Chace, Gen. Mgr., Pawtucket, R. I.			
Cumnock, John	Ac.	Apr. 30, 1914	
Gen. Mgr. Altavista Cotton Mills, Altavista, Va.			
Cunningham, George C.	Ac.	Apr. 6, 1922	
Treas. Indian Head Mills of Alabama, 48 Franklin St., Boston, Mass.			
Currier, Andrew J.	Ac.	Apr. 25, 1888	
66 Broad St., Valley Falls, R. I.			
Curtis & Marble Machine Co.	Sus.	Apr. 8, 1919	
Edwin H. Marble, Pres., Worcester, Mass.			
Cutter, John	Ac.	June 5, 1925	
Amory, Browne & Co., 48 Franklin St., Boston, Mass.			
Dana, Luther	Ac.	Apr. 30, 1914	
Pres. Dana Warp Mills, Westbrook, Me.			
Dana, Philip	Ac.	Sept. 29, 1898	
Treas. Dana Warp Mills, 347 Brown St., Westbrook, Me.			
Dana Warp Mills	Sus.	May 12, 1917	
Philip Dana, Treas., Westbrook, Me.			

			Elected
Daniels, F. G.	Gen. Mgr. Dominion Textile Co., Ltd., 710 Victoria Sq., Montreal, Quebec, Canada.	Ac.	Apr. 17, 1908
Danker, Daniel J.	73 Dean Rd., Brookline, Mass.	{ L.	Apr. 28, 1904 Apr. 25, 1907
Davis, Edward H.	Lawrence & Co., 24 Thomas St., New York City.	Ac.	Apr. 6, 1923
Davis Mills	Frank L. Carpenter, Treas., Fall River, Mass.	Sus.	July 20, 1917
Davis, Poncet	Pres. Poncet Davis Co., 226 Ohio Bldg., Akron, Ohio.	As.	June 1, 1923
Davis, T. A.	Anderson, Clayton & Co., 45 Franklin St., Boston, Mass.	S.R.	June 1, 1923
Davol Mills	M. R. Brown, Treas., Fall River, Mass.	Sus.	Aug. 12, 1918
Dawson, Arthur O.	Pres. Canadian Cottons, Ltd., 760 Victoria Sq., Montreal, Quebec, Canada.	Ac.	Oct. 4, 1907
Day, Morgan G.	Asst. Agt. Indian Orchard Co., Indian Orchard, Mass.	Ac.	May 3, 1921
Dean, Milton O.	Agt. Edwards Mfg. Co., Augusta, Me.	Ac.	Dec. 1, 1921
Deering, Henry G.	Crompton & Knowles Loom Works, 241 Harris Ave., Providence, R. I.	As.	Apr. 15, 1927
Deering, Milliken & Co., Inc.	79 Leonard St., New York City.	Sus.	Nov. 26, 1919
De Forest, George	Chairman of Board, Utica Steam & Mohawk Valley Cotton Mills, Utica, N. Y.	Ac.	Oct. 28, 1897
Delano, Arthur D.	Treas. Manufacturers' Supply Co., 382 Acushnet Ave., New Bedford, Mass.	As.	May 5, 1919
Delano, George	Treas. Bourne Mills, Fall River, Mass.	S.R.	May 1, 1920
DeNormandie, P. Y.	Bliss, Fabyan & Co., 45 Franklin St., Boston, Mass.	Ac.	Apr. 29, 1896
Descoteaux, George N.	Herbert H. French Company, 100 Summer St., Boston, Mass.	S.R.	Dec. 7, 1928
Dexter, Charles	Rumford Textile Co., Phillipsdale, R. I.	Ac.	May 13, 1927
Dexter, Henry C.	Sales Agt. Fales & Jenks Machine Co., Pawtucket, R. I.	Ac.	Apr. 25, 1901
Dick, Evans, Jr.	Dick, Geary & Lancaster, 37 Pearl St., Boston, Mass.	S.R.	June 14, 1926
Dick, Geary & Lancaster	Evans Dick, Jr., 37 Pearl St., Boston, Mass.	Sus.	June 14, 1926
Dickinson, William E.	The Textile Development Co., 80 Federal St., Boston, Mass.	Tech.	Oct. 25, 1928
Dillon, Frederick N.	D. M. Dillon Steam Boiler Wks., Fitchburg, Mass.	As.	Sept. 22, 1904
Dimick, A. W.	Treas. Grosvenor-Dale Co., No. Grosvenor-Dale, Conn.	S.R.	Sept. 10, 1918

		Elected	
Dineen, John J.	Supt. La Tosea Yarn Mill, Utica, N. Y.	Ac.	Apr. 30, 1914
Dixon, Ezra	Pres. Dixon Lubricating Saddle Co., Bristol, R. I.	As.	Sept. 21, 1905
Dodge, Linsley V.	Asst. Treas. Berkshire Fine Spinning Associates, Inc., Adams, Mass.	Ac.	Apr. 16, 1926
Dolphin, Joseph	Mgr. Canadian Cottons, Ltd., Marysville, New Brunswick, Canada.	Ac.	May 3, 1918
Donelan, Thomas E.	Gen. Mgr. Greenwich Bleachery, So. Main St., E. Greenwich, R. I.	Ac.	Feb. 2, 1922
Dooley, John S.	William J. Dooley & Co., 60 Congress St., Boston, Mass.	As.	Feb. 14, 1919
Douty, Daniel E.	Vice Pres. and Gen. Mgr. U. S. Testing Co., Inc., 316 Hudson St., New York City.	Ac.	Oct. 2, 1913
Dow, Robert	Treas. Solway Dyeing & Textile Co., Pawtucket, R. I.	Ac.	Apr. 25, 1901
Downer, Arthur T.	Pres. New England Laundries, Inc., Converse Pl., Winchester, Mass.	As.	June 1, 1923
Draper, Arthur J.	Iccmorlee Cotton Mills, Monroe, N. C.	Ac.	Apr. 23, 1903
Draper, B. H. Bristow	Treas. Draper Corporation, Hopedale, Mass.	{ L.	Apr. 24, 1913 May 7, 1913
Draper Corp.	B. H. Bristow Draper, Treas., Hopedale, Mass.	Sus.	Aug. 10, 1917
Dresser, Henry C.	Agt. Beaver Mills, North Adams, Mass.	Ac.	Apr. 27, 1905
Duckworth, Harry S.	Gen. Agt. Cranston Print Works Co., Cranston, R. I.	Ac.	Apr. 17, 1908
Duff, John	David Duff & Son, New Bedford, Mass.	As.	Apr. 28, 1910
Duffy, Walter F.	Pres. & Treas. Acme Ball Bearing Spindle Corp., Franklin, N. H.	As.	Nov. 21, 1927
Dumaine, Frederic C.	Treas. Amoskeag Mfg. Co., P. O. Box 5228, Boston, Mass.	Ac.	Apr. 25, 1901
Duncan, David	Asst. to Agents, Lonsdale Co., 50 South Main St., Providence, R. I.	Ac.	Jan. 11, 1926
Dunlap, F. Lincoln	Supt. Wampanoag Mills, 69 Alden St., Fall River, Mass.	Ac.	Feb. 2, 1923
Dunn, John C.	The Real Reel Company, Providence, R. I.	As.	May 3, 1929
Du Pont de Nemours, E. I. & Co., Inc.	R. S. Lunt, 274 Franklin St., Boston, Mass.	Sus.	Oct. 27, 1927
Du Pont Rayon Company	F. R. Brown, 2 Park Ave., New York City.	Sus.	Mar. 4, 1927
Durfee, Nathan	Asst. Treas. American Printing Co., Fall River, Mass.	Ac.	Apr. 27, 1916
Durfee, Randall N., Jr.	Lewiston Bleachery & Dye Works, 160 State St., Boston, Mass.	Ac.	Oct. 27, 1927
Dutcher, Frank J.	Pres. Draper Corp., Hopedale, Mass.	Ac.	Apr. 24, 1902
Dwight Mfg. Co.	George Nichols, Treas., 53 State St., Boston, Mass.	Sus.	Dec. 5, 1918

		Elected	
Eames, Charles H.	Pres. Lowell Textile Institute, Lowell, Mass.	Ac.	Apr. 25, 1907
Earle, Frederic E.	Pres. & Treas. F. E. Earle Co., P. O. Box 804, New Bedford, Mass.	As.	Apr. 6, 1923
Earle, G. Kenneth	Pres. G. Kenneth Earle Co., 4 Market Sq., Providence, R. I.	As.	July 10, 1925
Eastwood, Benjamin, Jr.	Sec. Benjamin Eastwood Co., 300 Straight St., Paterson, N. J.	Ac.	Apr. 13, 1911
Eaton, Clarence W.	C. W. Eaton & Co., 3701 N. Broad St., Philadelphia, Pa.	As.	May 13, 1927
Eddy, Jesse P.	Treas. Tillinghast, Stiles Co., P. O. Box 1522, Providence, R. I.	Ac.	Sept. 21, 1905
Eddy, John D.	190 Winter St., Fall River, Mass.	Ac.	Apr. 27, 1916
Edwards, D. F.	Pres. Saco-Lowell Shops, 147 Milk St., Boston, Mass.	S.R.	May 18, 1917
Ely, Grosvenor	Pres. Ashland Cotton Co., Norwich, Conn.	Ac.	Sept. 30, 1908
Ely, Lloyd C.	The Textile Development Co., 80 Federal St., Boston, Mass.	Tech.	June 8, 1928
Emery, Arthur L.	Aragon Baldwin Company, Rock Hill, S. C.	Ac.	Apr. 5, 1921
Erhard, George P.	Pres. The Stafford Co., Readville, Mass.	S.R.	Apr. 1, 1918
Ernst & Ernst	Russell C. Harrington, 1702 New Industrial Trust Bldg., Providence, R. I.	Sus.	Mar. 22, 1929
Erwin, William A.	Treas. Erwin Cotton Mills, West Durham, N. C.	Ac.	Sept. 29, 1911
Esmond Mills, The	Dexter Stevens, Mgr., Esmond, R. I.	Sus.	Nov. 14, 1918
Estes, George H.	Asst. Agt. Continental Mills, P. O. Box 427, Lewiston, Me.	Ac.	May 5, 1922
Everett, Henry C., Jr.	201 Devonshire St., Boston, Mass.	Ac.	Sept. 15, 1916
Everett, James R.	Vice Pres. & Gen. Mgr. Wonalancet Co., Nashua, N. H.	S.R.	Mar. 15, 1918
Everett, Richard M.	Pacific Mills, 89 Franklin St., Boston, Mass.	Ac.	Dec. 7, 1928
Fabyan, Francis W.	Bliss, Fabyan & Co., 45 Franklin St., Boston, Mass.	Ac.	Sept. 29, 1911
Fales, J. Richmond	Vice Pres. Fales & Jenks Machine Co., Pawtucket, R. I.	As.	Apr. 24, 1923
Farlow, John S.	Asst. Treas. Whittenton Mfg. Co., 50 State St., Boston, Mass.	S.R.	Jan. 30, 1925
Farnum, John, Co.	Philip F. Coleman, Sec., Philadelphia, Pa.	Sus.	Oct. 5, 1923
Farrell, J. E.	Supt. West Boylston Mfg. Co., Easthampton, Mass.	Ac.	June 6, 1924
Faunce, Vernon C.	Gen. Supt. Bates Mfg. Co., Lewiston, Me.	Ac.	Apr. 17, 1908

			Elected	
Ferguson, J. C.	Gen. Mgr. Eclipse Textile Co., Inc., Elmira, N. Y.	As.	May 3, 1921	
Ferguson, James T.	Agt. Warwick Mills, Centreville, R. I.	Ac.	Oct. 5, 1899	
Ferguson, John W.	152 Market St., Paterson, N. J.	As.	Apr. 24, 1895	
Ferrier, William	Asst. Supt. Richard Borden Mfg. Co., Fall River, Mass.	Ac.	Apr. 6, 1922	
Fibre & Fabric	Frederic L. Babcock, Editor, 465 Main St., Cambridge, Mass.	Sus.	Apr. 6, 1922	
Field, Frank S.	Asst. Treas. Massacomet Yarn Mills, Shattuckville, Mass.	{	Oct. 25, 1895	
		{ L.	Apr. 27, 1916	
Fingerhut, Charles F.	Utica Steam & Mohawk Valley Cotton Mills, Utica, N. Y.	Ac.	May 13, 1927	
First National Bank of Boston	Charles F. Mills, Vice Pres., 67 Milk St., Boston, Mass.	Sus.	Oct. 27, 1927	
Fish, Charles H.	California Club, Los Angeles, Calif.	{	Apr. 27, 1887	
		{ L.	Apr. 28, 1904	
Fisher, Andrew	Textile Review, 161 Summer St., Boston, Mass.	Ac.	Apr. 28, 1910	
Fisher, James D.	P. T. Jackson Co., 41 Pearl St., Boston, Mass.	As.	Apr. 15, 1927	
Fisher, Robert H.	Du Pont Rayon Company, 941 Hospital Trust Bldg., Providence, R. I.	Ac.	Apr. 15, 1927	
Fisher, Stuart D.	Supt. Westerly Branch, Lorraine Mfg. Co., Westerly, R. I.	Ac.	July 10, 1925	
Fitchburg Yarn Co.	R. S. Wallace, Treas., Fitchburg, Mass.	Sus.	Nov. 1, 1918	
Flather, Frederick A.	Treas. Boott Mills, 79 Milk St., Boston, Mass.	{	Apr. 29, 1891	
		{ L.	Apr. 17, 1908	
Flather, Frederick	Boott Mills, Lowell, Mass.	{	May 1, 1924	
		{ L.	May 1, 1924	
Flather, John Rogers	Boott Mills, Lowell, Mass.	{	May 1, 1924	
		{ L.	May 1, 1924	
Fletcher, Harry	Oliver Johnson & Co., Inc., 18 Custom House St., Providence, R. I.	As.	Oct. 27, 1927	
Forestdale Mfg. Co.	Forestdale, R. I.	Sus.	Jan. 23, 1919	
Forsyth, Charles Henry	Supt. Jackson Mill of Nashua Mfg. Co., Nashua, N. H.	Ac.	Oct. 14, 1925	
Foss, Eugene N.	11 Revere St., Jamaica Plain, Mass.	Ac.	Apr. 25, 1907	
Foss, Noble	Pres. Maverick Mills, 60 State St., Boston, Mass.	Ac.	Apr. 16, 1926	
Fowler, C. S.	Lorraine Mfg. Co. of New York, 40 Worth St., New York City.	Ac.	June 29, 1920	
Fowler, E. T.	Treas. & Mgr. Foster Machine Co., Westfield, Mass.	As.	Apr. 26, 1906	

Fraker, George W.	Elected
Vice Pres. National City Bank, New York City.	As. Mar. 1, 1919
France, Edward W.	
Director, Philadelphia Textile School, Broad and Pine Sts., Philadelphia, Pa.	Ac. Sept. 22, 1896
Francis, T. A., & Co.	
T. A. Francis, Providence, R. I.	Sus. Aug. 1, 1919
Franklin Rayon Corporation	
Royal Little, Treas., 86 Crary St., Providence, R. I.	Sus. Oct. 27, 1927
Freeman, Arthur C.	
Vice Pres. H. W. Butterworth & Sons Co., 1212 Turks Head Bldg., Providence, R. I.	Ac. Apr. 27, 1899
French, Herbert F., Company	
George N. Descoteaux, 100 Summer St., Boston, Mass.	Sus. Dec. 7, 1928
Friedman, Nathan H.	
The Harodite Finishing Company, North Dighton, Mass.	Ac. May 3, 1929
Frisbie, Calvin H.	
Pres. Totokett Mfg. Co., Norwich, Conn.	S.R. July 20, 1918
Fritz, Frank R.	
Nashua Mfg. Co., 48 Franklin St., Boston, Mass.	Ac. Oct. 16, 1919
Frost, Rufus S.	
Crompton & Knowles Loom Works, Worcester, Mass.	As. Apr. 15, 1927
Gage, Homer	
Pres. Crompton & Knowles Loom Works, Worcester, Mass.	S.R. July 20, 1918
Gagnebin, Charles L.	
41 Carlton St., Brookline, Mass.	As. Apr. 30, 1914
Gallant, Walter B.	
Agt. Newmarket Mfg. Co., Newmarket, N. H.	Ac. Feb. 2, 1922
Gama, Salvado R.	
Mgr. Machado, Gama & Co., Caixa Postal No. 2093, Rio de Janeiro, Brazil.	{ L. Apr. 27, 1916 Apr. 26, 1917
Gardner, William B.	
Treas. Nashawena Mills, New Bedford, Mass.	Ac. Sept. 23, 1909
Garland, James P.	
Vice Pres. Garland Mfg. Co., Saco, Me.	As. Apr. 16, 1926
Garside, Alston H.	
Director, Garside Cotton Service, 141 Milk St., Boston, Mass.	As. Apr. 16, 1926
Gary, E. Stanley	
Pres. James S. Gary & Sons, Inc., 204-206 American Bldg., Baltimore, Md.	Ac. Oct. 1, 1903
General Electric Company	
West Lynn, Mass.	Sus. May 24, 1917
Gerard Swope, Pres., New York City.	
W. W. Cronkhite, Schenectady, N. Y.	
Gibbs, E. Payson	
Biddeford, Me.	Ac. Sept. 23, 1909
Gilliland, Charles L.	
1530 Bankers Trust Bldg., Philadelphia, Pa.	Ac. Oct. 2, 1913
Gilman, Edward T.	
363 Bridge St., Lowell, Mass.	Ac. May 5, 1922

		Elected
Gilmore, George L.	Ac.	Apr. 29, 1916
K. M. Gilmore & Co., Somerville, Mass.		
Gilmore, K. M., & Co.	Sus.	June 4, 1917
George L. Gilmore, Somerville, Mass.		
Glennon, John F.	Ac.	Apr. 16, 1926
Supt. Quissett Mill, New Bedford, Mass.		
Glennon, Thomas F.	Ac.	Apr. 28, 1910
Agt. Quissett Mill, New Bedford, Mass.		
Gniessin, Vladimir F.	Ac.	Oct. 1, 1903
Blythewood, S. C.		
Goddard Brothers	Sus.	Nov. 8, 1918
R. H. I. Goddard, Treas., Providence, R. I.		
Goddard, R. H. I.	S.R.	Nov. 8, 1918
Treas. Goddard Brothers, Providence, R. I.		
Godfrey, William C.	Ac.	Oct. 29, 1890
Treas. and Agt. Indian Orchard Co., Indian Orchard, Mass.		
Goerner, Gustav William	As.	Apr. 27, 1916
Roessler & Hasslachier Chemical Co., 40 Central St., Boston, Mass.		
Goldman, Maurice A.	Ac.	Sept. 30, 1927
New England Southern Corp., 89 Broad St., Boston, Mass.		
Goldsmith, Wm. H., Jr.	As.	Oct. 20, 1917
Consulting Engr., 43 Garrison Rd., Brookline, Mass.		
Goodyear Cotton Mills, Inc.	Sus.	Feb. 8, 1918
H. B. Puckett, Asst. Treas., Goodyear, Conn.		
Gordon, C. B.	Ac.	Sept. 13, 1906
Chairman of Board, Dominion Textile Co., Ltd., 710 Victoria Sq., Montreal, Quebec, Canada.		
Gordon, Frederick B.	Ac.	Apr. 26, 1900
Pres. Columbus Mfg. Co., Columbus, Ga.		
Gore, Lyman W.	S.R.	Oct. 27, 1927
Gore-Temple Company, 178 Federal St., Boston, Mass.		
Gore-Temple Company	Sus.	Oct. 27, 1927
Lyman W. Gore, 178 Federal St., Boston, Mass.		
Chas. S. Temple, 178 Federal St., Boston, Mass.		
Gould, William A.	As.	Dec. 6, 1926
30 Alvarade Ave., Worcester, Mass.		
Gourley, Hugh J.	Ac.	Sept. 8, 1922
Agt. Warren Mfg. Co., Water St., Warren, R. I.		
Goyette, A. Erland	{	May 5, 1922
Mgr. Joseph Noone's Sons Co., Peterboro, N. H.		Oct. 27, 1927
Grab, Max	Ac.	Apr. 6, 1922
M. Grab Sons, Prague VIII, Czechoslovakia.		
Grandison, Ralph V.	As.	June 29, 1920
Agt. Hazard Cotton Co., P. O. Box 1835, Boston, Mass.		
Gray, William H.	Ac.	May 3, 1918
Pres. and Treas. Dedham Finishing Co., Dedham, Mass.		
Greene, Edwin Farnham	Ac.	Apr. 24, 1902
Edwin Farnham Greene Co., 40 Worth St., New York City.		
Greene, Everett A.	Ac.	May 4, 1920
Lockwood Greene, Engineers, Inc., 24 Federal St., Boston, Mass.		
Greene, F. Hartwell	Ac.	June 1, 1923
Alexander Sprunt & Co., 45 Franklin St., Boston, Mass.		

		Elected
Greene, Ray W., Jr.	Ac.	Nov. 21, 1927
Lawton Mills Corp., Plainfield, Conn.		
Greene, S. Harold	Ac.	Apr. 27, 1905
Treas. Lawton Mills Corp., 77 Franklin St., Boston, Mass.		
Greenhalgh, George T.	Ac.	Apr. 30, 1909
Treas. Greenhalgh Mills, Pawtucket, R. I.		
Greenlaw, Henry C.	Ac.	Apr. 26, 1928
Agt., Nashua Mfg. Co., Suffolk Mills, Lowell, Mass.		
Greenough, Allan B.	Ac.	Oct. 20, 1918
45 Milk St., Boston, Mass.		
Greenville Finishing Company	Sus.	June 14, 1926
A. F. Shaw, Pres., Greenville, R. I.		
Greer, Samuel	Ac.	Apr. 24, 1923
173 Maple St., Danvers, Mass.		
Greer, William K.	Ac.	Apr. 26, 1906
Agt. Hoosac Cotton Mills, P. O. Box 258, North Adams, Mass.		
Gridley, Oscar W.	Ac.	Apr. 28, 1910
Treas. Utica Knitting Co., Erie St., Utica, N. Y.		
Grinnell Mfg. Corp.	Sus.	Mar. 18, 1918
Joseph W. Webster, Treas., New Bedford, Mass.		
Griswoldville Mfg. Co.	Sus.	Jan. 21, 1918
Joseph W. Ballard, Treas., Griswoldville, Mass.		
Grosvenor-Dale Co.	Sus.	Sept. 10, 1918
A. W. Dimick, Treas., No. Grosvenor-Dale, Conn.		
Grosvenor, William	Ac.	Apr. 28, 1910
Pres. Grosvenor-Dale Co., P. O. Box 1384, Providence, R. I.		
Gunby, Frank M.	As.	Apr. 26, 1917
e/o Charles T. Main, 201 Devonshire St., Boston, Mass.		
Haerry, John H.	Ac.	Oct. 25, 1928
Crompton Company, West Warwick, R. I.		
Haff, Raymond E. T.	As.	Sept. 30, 1927
Du Pont Rayon Co., 2 Park Ave., New York City.		
Hagan, Thomas H.	Ac.	June 5, 1925
Vice Pres. The Textile Development Co., 80 Federal St., Boston, Mass.		
Hague, Edwin D.	As.	Oct. 5, 1922
Whitin Machine Wks., Whitinsville, Mass.		
Hale, Frank J.	Ac.	Apr. 27, 1892
147 Milk St., Boston, Mass.		
Hale, Roger D.	As.	Oct. 14, 1925
Saco-Lowell Shops, 147 Milk St., Boston, Mass.		
Haley, Henry T.	Ac.	Sept. 30, 1914
Pres. Dundee Mills, Hooksett, N. H.		
Hall, F. C.	Ac.	Oct. 29, 1918
Marshfield, Mass.		
Hall, F. Kilby	{	Sept. 30, 1927
Textile Section, Bureau of Standards, Washington, D. C.		Feb. 10, 1928
Hall, H. Dwight	As.	June 1, 1923
Sec. Boston Mfrs. Mutual Fire Ins. Co., 185 Franklin St., Boston, Mass.		

			Elected	
Hall, Lindsay S.	Supt. Devon Mills, Inc., New Bedford, Mass.	Ac.	Oct. 16, 1919	
Hall, Walter B.	West Warren, Mass.	Ac.	Apr. 25, 1901	
Halliwell, William	Agt. Lawton Spinning Co., Woonsocket, R. I.	Ac.	Sept. 26, 1901	
Hanaford, John H.	89 State St., Boston, Mass.	As.	May 3, 1918	
Hannah, George K.	Supt. Parkhill Div. of the Amoskeag Mfg. Co., Fitchburg, Mass.	Ac.	Apr. 24, 1923	
Hansen, Harold C.	Boston Transcript, 324 Washington St., Boston, Mass.	{ L.	Sept. 23, 1909	
			Sept. 23, 1910	
Harden, Henry C.	Agt. Dwight Mfg. Co., Somersworth, N. H.	Ac.	May 3, 1918	
Harding, Charles L.	Pres. Whitman Mills, 77 Franklin St., Boston, Mass.	Ac.	Sept. 11, 1912	
Harmony Mills	John Skinner, Treas., Cohoes, N. Y.	Sus.	May 10, 1917	
Harrington, Russell C.	Ernst & Ernst, 1702 New Industrial Trust Bldg., Providence, R. I.	S.R.	Mar. 22, 1929	
Harris, Thomas	109 Hazard Ave., Providence, R. I.	Ac.	Jan. 11, 1926	
Harrison, Gilbert D.	V. P. & Gen. Mgr. Lewiston Bleachery & Dye Works, Lewiston, Me.	Ac.	Jan. 12, 1922	
Harrison, Herbert	Agt. John Hetherington & Sons, Ltd., 49 Federal St., Boston, Mass.	As.	Jan. 14, 1919	
Harrower, Francis D.	Asst. Agt. The Wauregan Co., Wauregan, Conn.	Ac.	Apr. 4, 1924	
Harrower, Gordon	Vice Pres. & Asst. Treas. The Wauregan Co., P. O. Box 1425, Providence, R. I.	Ac.	Feb. 2, 1923	
Hartley, Frank	Frank Hartley & Son, 146 Summer St., Boston, Mass.	Ac.	Apr. 27, 1905	
Hartshorne, William D.	64 Middlesex Ave., Swampscott, Mass.	{ L.	Apr. 27, 1899	
			Apr. 26, 1906	
Hastings, Walter M.	Agt. Monomac Spinning Co., Lawrence, Mass.	Ac.	Apr. 23, 1903	
Hatch, Roy O.	Supt. Samson Cordage Works, Shirley, Mass.	Ac.	Apr. 16, 1926	
Hatch, T. Edward	Asst. Treas. Greenwich Bleachery Company, 80 Federal St., Boston, Mass.	Ac.	Oct. 27, 1927	
Hathaway, Edgar F.	Vice Pres. & Gen. Mgr. Shawmut Engineering Co., 195 Freeport St., Dorchester, Mass.	As.	Apr. 27, 1905	
Hathaway, Horatio	Pres. Acushnet Mill Corp., 8 Beacon St., Boston, Mass.	As.	Apr. 16, 1926	
Hathaway Mfg. Co.	J. E. Stanton, Jr., Treas., New Bedford, Mass.	Sus.	Nov. 21, 1918	
Hathaway, Russell	Research Associates, 27 Albany St., Boston, Mass.	Ac.	Jan. 6, 1928	
Haughton, M. Graeme	Haughton & Co., 40 Central St., Boston, Mass.	{ L.	Apr. 29, 1915	
			May 15, 1916	

		Elected	
Haurowitz, Stephen Carl	Ac.	Apr. 6, 1922	
L. Haurowitz-Grattau, Prague II, Vaelavske 14, Czechoslovakia.			
Havey, J. Fred	As.	Sept. 17, 1910	
Mgr. Foreign Sales Dept., Saco-Lowell Shops, 147 Milk St., Boston, Mass.			
Hawes, G. R.	S.R.	May 3, 1929	
Barrington Associates, 1 Park Ave., New York City.			
Hawes, William B.	Ac.	Apr. 24, 1895	
O. S. Hawes & Brother, P. O. Box 733, Fall River, Mass.			
Hayes, Clifford B.	Ac.	Jan. 17, 1927	
Pacific Mills, Lyman Division, Lyman, S. C.			
Hayward, Harry J.	Ac.	Aug. 10, 1927	
Tucapau Mills, Tucapau, S. C.			
Hayward, Harry T.	Ac.	Apr. 25, 1907	
Pres. Forestdale Mfg. Co., Franklin, Mass.			
Hazard, William H., Jr.	Tech.	Apr. 16, 1926	
The Textile Development Co., 80 Federal St., Boston, Mass.			
Heap, Charles F.	Ac.	Apr. 30, 1909	
Supt. Lincoln Mfg. Co., Fall River, Mass.			
Hedrick, Charles C.	As.	Apr. 23, 1903	
c/o Mitsubishi Shoji Kaisha, Ltd., 15 Andojibashidori, 3 Chome, Minami-Ku, Osaka, Japan.			
Helfenbein, Robert	Jr. Tech.	Jan. 17, 1927	
105 George St., Fall River, Mass.			
Hendry, Robert A.	Ac.	June 14, 1926	
Supt. of Finishing, Nashawena Mills, New Bedford, Mass.			
Hentz, H., & Company	Sus.	Apr. 26, 1928	
George L. Snowden, Mgr. Cotton Dept., 60 Beaver St., New York City.			
Herrick, Clifford E.	As.	June 14, 1926	
Northern Agent, Boyce Weavers Knotter, 41 Franklin St., Providence, R. I.			
Herrick, Robert F., Jr.	As.	Apr. 6, 1920	
V. P. Saco-Lowell Shops, 147 Milk St., Boston, Mass.			
Herrick, Robert F.	Ac.	Apr. 27, 1916	
Pres. Pacific Mills, 1 Federal St., Boston, Mass.			
Herron, Alexander T.	Ac.	Apr. 4, 1924	
P. O. Box 57, Utica, N. Y.			
Hersey, Henry H.	As.	Apr. 16, 1926	
Mgr. Roller Leather Dept. A. C. Lawrence Leather Co., 1210 Woodside Bldg., Greenville, S. C.			
Hewins, Edmund D.	As.	Oct. 5, 1922	
Pres. & Treas. E. D. Hewins, Inc., 72 Lincoln St., Boston, Mass.			
Heyes, Fred L.	Ac.	Sept. 11, 1915	
Agt. Nonquitt Spinning Co., 449 Clinton St., New Bedford, Mass.			
Hill, John H.	As.	Apr. 16, 1926	
Steel Heddle Mfg. Co., Providence, R. I.			
Hill & Cutler Co.	Sus.	Mar. 7, 1924	
Laurance D. Chapman, Asst. Treas., 1 Pearl St., New Bedford, Mass.			
Hill Mfg. Co.	Sus.	June 15, 1923	
George E. Spofford, Treas., 9 Green St., Augusta, Me.			
Hillman, Ralph G.	Ac.	Apr. 16, 1926	
Asst. Supt. Samson Cordage Works, Shirley, Mass.			

		Elected	
Hinckley, Everett H.	Borne-Scrymser Co., 17 Battery Pl., New York City.	As.	Aug. 3, 1921
Hinckley, George C.	Textile Broker, 707 Grosvenor Bldg., Providence, R. I.	Ac.	Sept. 23, 1909
Hindle, Joseph H.	Supt. Print Wks. Div. American Printing Co., Water St., Fall River, Mass.	Ac.	June 1, 1923
Hitchcock, Thomas B.	32 Fuller St., Brookline, Mass.	Ac.	Apr. 13, 1911
Hobbs, A. F.	Vice Pres. New York Mills Corp., New York Mills, N. Y.	S.R.	Feb. 10, 1920
Hobbs, Ernest S.	Treas. Aurora Cotton Mills, Aurora, Ill.	Ac.	Oct. 29, 1918
Hobbs, Franklin W.	Pres. Arlington Mills, 78 Chauncy St., Boston, Mass.	{ L.	Apr. 27, 1899 Apr. 18, 1917
Hodges, Charles E.	Pres. American Mutual Liability Ins. Co., 142 Berkeley St., Boston, Mass.	As.	Apr. 17, 1908
Holbrook, H. G.	Kendall Mills, Inc., Walpole, Mass.	S.R.	Aug. 3, 1921
Holcomb, Clark W.	New Bedford Boiler & Machine Co., P. O. Box 650, New Bedford, Mass.	Ac.	Sept. 21, 1905
Holgate, Benjamin	Agt. Boott Mills, Lowell, Mass.	Ac.	Jan. 12, 1922
Holmes, Charles M.	Treas. Holmes Mfg. Co., New Bedford, Mass.	Ac.	Apr. 27, 1899
Holmes Mfg. Co.	Charles M. Holmes, Treas., New Bedford, Mass.	Sus.	Sept. 18, 1917
Holt, John H.	Treas. Luther Mfg. Co., P. O. Box 57, Fall River, Mass.	{ L.	Apr. 23, 1903 Feb. 25, 1920
Homer, Arthur C.	Treas. Pilgrim Mills, Fall River, Mass.	S.R.	July 17, 1917
Hood, Ernest N.	Treas. Naumkeag Steam Cotton Co., Salem, Mass.	Ac.	Oct. 20, 1917
Hook, Russell W.	Textile Chemist, Arthur D. Little, Inc., 30 Charles River Road, Cambridge, Mass.	Ac.	Apr. 26, 1928
Hooper, James P.	Vice Pres. William E. Hooper & Sons Co., Baltimore, Md.	Ac.	May 3, 1918
Hooper, Robert P.	Treas. Hooper Sons Mfg. Co., Juniper and Cherry Sts., Philadelphia, Pa.	Ac.	Sept. 21, 1905
Hoosac Cotton Mills	Harold M. Coxen, Treas., North Adams, Mass.	Sus.	Feb. 21, 1918
Hopkinson, Thomas	Hopkinson Dyeing & Textile Works, Fall River, Mass.	Ac.	Apr. 25, 1912
Hopson, Harry B.	Green & Hopson, Green Bldg., Springfield, Mass.	Ac.	Apr. 28, 1904
Horton, Herbert Roy	J. & P. Coats (R. I.), Inc., 614 East Ave., Pawtucket, R. I.	Ac.	Mar. 4, 1927
Houghton, Harry E.	Supt. Spinning, Dartmouth Mfg. Co., Cove St., New Bedford, Mass.	Ac.	Apr. 30, 1914

		Elected
Howard Bros. Mfg. Co.	Sus.	Jan. 22, 1918
Herbert Midgley, Pres. & Gen. Mgr., Worcester, Mass.		
Howe, Dudley R.	Ac.	Oct. 5, 1923
Lockwood Greene, Engineers, Inc., 24 Federal St., Boston, Mass.		
Howe, Frederick W.	As.	Apr. 24, 1902
Vice Pres. Crompton & Knowles Loom Wks., P. O. Box 1361, Providence, R. I.		
Howe, Henry S.	Ac.	Oct. 31, 1877
53 State St., Room 843, Boston, Mass.		
Howe, Parkman D.	Ac.	Sept. 11, 1915
Lawrence & Co., 89 Franklin St., Boston, Mass.		
Howe, Percival S., Jr.	Ac.	Mar. 2, 1923
Wellington, Sears & Co., 65 Worth St., New York City.		
Howe, Woodbury K.	Ac.	June 7, 1919
Asst. Supt. Merrimack Mfg. Co., Lowell, Mass.		
Howland, Weston	Ac.	May 1, 1924
Treas. Warwick Mills, 201 Devonshire St., Boston, Mass.		
Hoxie, Frederick J.	Ac.	Apr. 26, 1928
Consulting Textile Engineer, West Warwick, R. I.		
Hubbard, Samuel T.	As.	Sept. 13, 1906
Hubbard Bros. & Co., 66 Beaver St., New York City.		
Hubbard, Samuel T., Jr.	As.	May 3, 1929
Hubbard Bros. & Co., 66 Beaver St., New York City.		
Huggins, Gurry E.	As.	Apr. 30, 1914
79 Broadway, New York City.		
Hunnewell, Arnold W.	As.	May 3, 1921
Asst. Treas. Nashua Mfg. Co., 48 Franklin St., Boston, Mass.		
Hunter, Henry P.	Ac.	Apr. 24, 1913
Supt. Equinox Mill & Gluck Mills, Anderson, S. C.		
Huntoon, Harrison B., Jr.	Ac.	June 1, 1923
Treas. Providence Braid Co., P. O. Box 1271, Providence, R. I.		
Huntoon, Maxwell C.	Ac.	June 1, 1923
Pres. Woodlawn Finishing Co., P. O. Box 1211, Providence, R. I.		
Hyslop, Samuel	Ac.	Sept. 30, 1908
Mgr. Saxony Worsted Mills, Newton, Mass.		
Ilseley, John P.	As.	Oct. 6, 1921
Solvay Sales Corp., 77 Summer St., Boston, Mass.		
Inches, Charles E.	Ac.	May 4, 1920
Boston, Mass.		
Industrial Rayon Corporation	Sus.	Feb. 10, 1928
D. S. Mallory, Treas., W. 98th St. and Walford Ave., Cleveland, Ohio.		
Hiram S. Rivitz, Pres., W. 98th St. and Walford Ave., Cleveland, Ohio.		
Interlaken Mills	Sus.	Oct. 29, 1918
Harris H. Bucklin, Asst. Treas., Phenix, R. I.		
Irvine, Robert A.	Ac.	Dec. 6, 1926
Supt. Lancaster Mills, Clinton, Mass.		
Iselin, Oliver	Ac.	May 13, 1927
William Iselin & Co., 18 Thomas St., New York City.		

		Elected	
Jackson, N. Baxter	As.	Feb. 5, 1926	
Vice Pres. Chemical National Bank, 270 Broadway, New York City.			
Jackson, P. T.	Ac.	Sept. 21, 1905	
Vice Pres. Essex Cotton Mills, P. O. Box 2035, Boston, Mass.			
Jackson, S. Eugene	Ac.	May 1, 1924	
Asst. Treas. Crown Mfg. Co., Pawtucket, R. I.			
Jamieson, Joseph B.	Ac.	Oct. 2, 1902	
Treas. J. B. Jamieson Co., 38 Chauncy St., Boston, Mass.			
Jamieson, Philip S.	Ac.	June 14, 1926	
Vice Pres. J. B. Jamieson Co., 38 Chauncy St., Boston, Mass.			
Jelleme, W. O.	Ac.	Aug. 5, 1919	
Farley Road, Short Hills, N. J.			
Jenckes, Earl S.	Ac.	Apr. 27, 1905	
Vice Pres. & Gen. Mgr. Reading Cotton Mill, Jos. Bancroft & Sons Co. of Pennsylvania, Reading, Pa.			
Jenckes, Frederick L.	Ac.	Apr. 25, 1907	
Treas. Manville Jenckes Co., Pawtucket, R. I.			
Jenkins, Arthur L.	As.	Apr. 26, 1928	
Asst. Treas. Emmons Loom Harness Co., Lawrence, Mass.			
Jenks, Robert R.	As.	Oct. 5, 1922	
Pres. Fales & Jenks Machine Co., 320 Dexter St., Pawtucket, R. I.			
Jenks, Samuel A.	As.	Apr. 16, 1926	
Sec. & Gen. Mgr. Union Electric Supply Co., 20 Commercial St., New Bedford, Mass.			
Jennings, Edward B.	Ac.	Sept. 29, 1898	
547 High St., Fall River, Mass.			
Jennings, William H.	S.R.	Nov. 1, 1918	
Treas. Algonquin Printing Co., Fall River, Mass.			
Johnson, Arthur R.	As.	May 1, 1924	
Ridley Watts & Co., 44 Leonard St. New York City.			
Johnson, Edward M.	As.	Apr. 29, 1915	
Vice Pres. & Treas. Arnold, Hoffman & Co., Inc., P. O. Box 1376, Providence, R. I.			
Jones, Allen	Ac.	Oct. 5, 1922	
Asst. Mgr. Beaver Mills, 102 Worth St., New York City.			
Jones, Ernest G.	As.	May 5, 1919	
Cooper & Brush, 826 Industrial Trust Bldg., Providence, R. I.			
Judson, Wm. D.	S.R.	Nov. 23, 1918	
Parker, Wilder & Co., 78 Leonard St., New York City.			
Jury, Alfred E.	As.	Sept. 16, 1916	
Winnsboro Mills, Winnsboro, S. C.			
Kay, George R.	Tech.	Oct. 27, 1927	
The Textile Development Company, 80 Federal St., Boston Mass.			
Kay, K.	Ac.	June 6, 1924	
Binny & Co. (Madras) Ltd., 7 Armenian St., Madras, India.			
Keech, F. B., & Co.	Sus.	Apr. 26, 1928	
W. Brewster Southworth, 30 State St., Boston, Mass.			
Keeler, Lawrence M.	As.	Sept. 26, 1901	
Agt. Whitin Machine Wks., Whitinsville, Mass.			
Kelley, Ahira Baker	Ac.	Apr. 13, 1911	
Bemis Bro. Bag Co., 40 Central St., Boston, Mass.			

		Elected
Kelley, Timothy J.	Ac.	Apr. 30, 1909
Vice Pres. Brighton Mills, Passaic, N. J.		
Kendall, Henry P.	Ac.	Apr. 29, 1915
Pres. Kendall Mills, Inc., 80 Federal St., Boston, Mass.		
Kendall Mills, Inc.	Sus.	Aug. 3, 1921
H. G. Holbrook, Walpole, Mass.		
Kenney, Frank B.	As.	Oct. 5, 1899
Pres. T. C. Entwistle Co., 297 Market St., Lowell, Mass.		
Kenney, Joseph T.	Ac.	May 3, 1918
Pres. Sharp Mfg. Co., New Bedford, Mass.		
Kenyon, Walter S.	Ac.	Dec. 6, 1926
American Thread Co., 260 West Broadway, New York City.		
Kern, William E., Jr.	Ac.	Sept. 23, 1909
Treas. Taber Mill, New Bedford, Mass.		
Kershaw, Elias H.	Ac.	Oct. 14, 1926
Berkshire Fine Spinning Associates, Inc., North Adams, Mass.		
Killheffer, Elvin H.	S.R.	Nov. 10, 1919
Vice Pres. Newport Chemical Wks., Inc., Passaic, N. J.		
Kimball, William N.	Ac.	Apr. 24, 1902
167 Woodland Rd., Woonsocket, R. I.		
King, Gelston T.	As.	Nov. 13, 1924
E. and F. King Co., Inc., 405 Atlantic Ave., Boston, Mass.		
King Philip Mills	Sus.	June 14, 1918
Simeon B. Chase, Treas., Fall River, Mass.		
Kirk, John T.	Ac.	Apr. 27, 1905
Gen. Supt. Nashawena Mill, 109 Bedford St., New Bedford, Mass.		
Klebart, Fred S.	As.	Apr. 25, 1912
The J. B. Ford Co., Wyandotte, Mich.		
Kleeb, Leonard, Jr.	Ac.	May 3, 1918
427 West Bedford St., New Bedford, Mass.		
Knight, Jesse A.	Ac.	Oct. 26, 1892
Agt. Manomet Mills, New Bedford, Mass.		
Knight, Walter B.	Ac.	Apr. 24, 1889
Agt. Quidnick-Windham Mfg. Co., Willimantic, Conn.		
Knowland, Richard G.	As.	Mar. 7, 1924
Bigelow-Hartford Carpet Co., 385 Madison Ave., New York City.		
Knowlton, Harold W.	Ac.	June 5, 1925
Treas. The Textile Development Co., 77 Summer St., Boston, Mass.		
Knowlton, Harry W.	As.	Nov. 1, 1923
Pres. Knowlton & Newton Co., Inc., 545 Broadway, Lowell, Mass.		
Kunhardt, L. H.	As.	Oct. 2, 1913
Vice Pres. Boston Mfrs. Mutual Fire Ins. Co., 185 Franklin St., Boston, Mass.		
Lamport Mfg. Supply Co.	Sus.	Nov. 13, 1924
Samuel C. Lamport, Pres., 509 Broadway, New York City.		
Lamport, Samuel C.	S.R.	Nov. 13, 1924
Pres. Lamport Mfg. Supply Co., 509 Broadway, New York City.		
Lancaster Mills	Sus.	Nov. 5, 1917
Robert R. West, Treas., Clinton, Mass.		
Lapham, Leonard C.	Ac.	Apr. 25, 1907
Treas. Nonquitt Spinning Co., New Bedford, Mass.		

		Elected	
Lasell, John W.	As.	Feb. 5, 1926	
Advertising Mgr. Whitin Machine Works, Whitinsville, Mass.			
Latham, Wendell G.	Ac.	June 5, 1925	
Supt. Blodgett & Orswell Co., Pawtucket, R. I.			
Lawrence, James	As.	Sept. 30, 1914	
McFadden, Sands & Co., 60 Batterymarch St., Boston, Mass.			
Lawrence, John S.	As.	Apr. 30, 1909	
Lawrence & Co., 89 Franklin St., Boston, Mass.			
Lawrence & Co.	Sus.	May 31, 1917	
John S. Lawrence, 89 Franklin St., Boston, Mass.			
Lawrence Duck Co.	Sus.	Mar. 15, 1918	
William L. Barrell, Treas., Lawrence, Mass.			
Lawson, John	As.	Oct. 26, 1918	
Pres. Hemphill Co., Pawtucket, R. I.			
Lawson, Ralph	As.	Oct. 20, 1917	
John Malloch & Co., 128 Washington St., Boston, Mass.			
Lawton Mills Corp., The	Sus.	Nov. 5, 1917	
S. Harold Greene, Treas., 77 Franklin St., Boston, Mass.			
Leach, Joseph T.	Ac.	Apr. 13, 1911	
Supt. Durfee Mills, Fall River, Mass.			
Leary, Frank J.	As.	Apr. 16, 1926	
Leary & Walker, New Bedford, Mass.			
Lee Higginson and Company	Sus.	Jan. 25, 1929	
Paul Courtney, 70 Federal St., Boston, Mass.			
Lee, William S.	Ac.	Apr. 13, 1911	
Vice Pres. Southern Power Co., P. O. Box 600, Charlotte, N. C.			
Leland, Richard C.	Ac.	Mar. 4, 1927	
Warwick Mills, West Warwick, R. I.			
Leonard, Philip H.	Ac.	June 14, 1926	
25 High St., Ipswich, Mass.			
Leonard, Russell H.	Ac.	Apr. 29, 1915	
Treas. Pepperell Mfg. Co., 160 State St., Boston, Mass.			
Leonard, Wardwell C.	Tech.	Mar. 2, 1923	
Nashawena Mills, New Bedford, Mass.			
Leve, Adolph	As.	June 8, 1928	
New England Waste Co., 549 Atlantic Ave., Boston, Mass.			
Lewis, J. Colby	Ac.	Nov. 13, 1924	
Gen. Mgr. Arkwright Mills, Fall River, Mass.			
Libbey, W. Scott	Ac.	May 5, 1922	
Treas. W. S. Libbey Co., Lewiston, Me.			
Liberty, Earl J.	Ac.	Mar. 4, 1927	
Whitin Bros., Inc., Whitinsville, Mass.			
Lincoln Mfg. Co.	Sus.	July 30, 1917	
Israel Brayton, Treas., Fall River, Mass.			
Lippitt, Henry F.	Ac.	Apr. 27, 1881	
Chairman, Manville Jenckes Co., P. O. Box 1465, Providence, R. I.			
Little Androscoggin Water Power Co.	Sus.	Sept. 18, 1917	
W. E. Winchester, Treas., 79 Leonard St., New York City.			
Little, Royal	S.R.	Oct. 27, 1927	
Franklin Rayon Corporation, 86 Crary St., Providence, R. I.			

Littlefield, W. Joseph Treas. Thorndike Company, 24 Milk St., Boston, Mass.	Elected Ac. Apr. 6, 1928
Locke, C. Hubert 1 Prospect St., Wakefield, Mass.	Ac. Oct. 27, 1927
Lockwood Co. William E. Winchester, 79 Leonard St., New York City.	Sus. Aug. 10, 1917
Lockwood, H. deForest Treas. Bates Mfg. Co., 60 Congress St., Boston, Mass.	Ac. Apr. 13, 1911
Loftus, William H. Supt. The Clark Thread Co., Newark, N. J.	Ac. Oct. 28, 1897
Loper, Ralph E., & Co. Ralph E. Loper, Pres., 10 Purchase St., Fall River, Mass.	Sus. Nov. 1, 1923
Loper, Ralph E. Pres. Ralph E. Loper & Co., 10 Purchase St., Fall River, Mass.	S.R. Nov. 1, 1923
Lord, Charles E. Pres. Aberfoyle Mfg. Co., Chester, Pa.	Ac. May 3, 1921
Lord, Harry D. Joseph Sykes (American) Inc., 137 Federal St., Boston, Mass.	Ac. Apr. 27, 1905
Lord, Henry G. Pres. Bragdon, Lord & Nagle Co., Inc., 65 Franklin St., Boston, Mass.	S.R. Mar. 1, 1918
Loring, Homer Pres. United Merchants and Manufacturers, 901 Beacon Trust Bldg., Boston, Mass.	Ac. Oct. 25, 1928
Lorraine Mfg. Co. James R. MacColl, Pres., Pawtucket, R. I.	Sus. May 24, 1917
Lovering, William M. Treas. Taunton Bleachery & Dye Works, Taunton, Mass.	Ac. Sept. 27, 1894
Low, J. J. E. P. Walker & Co., 100 Milk St., Boston, Mass.	As. May 1, 1924
Lowe, Arthur H. Pres. Amoskeag Mfg. Co., Manchester, N. H.	Ac. Oct. 30, 1889
Lowe, David Supt. Parkhill Division of the Amoskeag Mfg. Co., Fitchburg, Mass.	Ac. Apr. 24, 1895
Lowe, John Gen. Mgr. The Montreal Cottons, Ltd., Valleyfield, Quebec, Canada.	Ac. Apr. 28, 1910
Lowe, John 61 Prospect St., South Dartmouth, Mass.	Ac. Nov. 23, 1925
Lowe, Russell B. Parkhill Division of the Amoskeag Mfg. Co., Fitchburg, Mass.	Ac. Apr. 25, 1907
Lowell, A. Lawrence, LL.D. Pres. Harvard University, 19 Quincy St., Cambridge, Mass.	Hon. Apr. 30, 1909
Lowell, W. Frank Saco-Lowell Shops, 147 Milk St., Boston, Mass.	As. Oct. 14, 1926
Lowry, Walter L. Asst. Treas. Harmony Mills, Cohoes, N. Y.	Ac. Mar. 22, 1929
Luce, George E. Tire Fabric Corp., Salmon Falls, N. H.	Ac. Apr. 28, 1910
Lunt, R. S. E. I. du Pont de Nemours & Co., Inc., 274 Franklin St., Boston, Mass.	S.R. Oct. 27, 1927
Luther Mfg. Co. John H. Holt, Treas., P. O. Box 57, Fall River, Mass.	Sus. Feb. 1, 1918

			Elected
Lyall, William L.	Chairman of Board, Brighton Mills, Passaic, N. J.	Ac.	Oct. 26, 1892
Lyle, E. T.	Vice Pres. Carrier Engineering Corp., 39 Cortlandt St., New York City.	As.	Mar. 6, 1925
Lyman, Herbert	18 Tremont St., Room 441, Boston, Mass.	Ac.	Oct. 25, 1895
Lynch, T. J.	Allis-Chalmers Mfg. Co., 50 Congress St., Boston, Mass.	As.	Sept. 30, 1914
MacColl, James R.	Pres. Lorraine Mfg. Co., Pawtucket, R. I.	{ L.	Apr. 24, 1895 Sept. 21, 1905
MacColl, Kenneth D.	J. & P. Coats (R. I.), Inc., P. O. Box 968, Pawtucket, R. I.	Ac.	June 8, 1928
MacColl, William B.	Sec.-Treas. Lorraine Mfg. Co., Pawtucket, R. I.	Ac.	Apr. 13, 1911
McBee, William B.	Pres. & Treas. Blackstone Mutual Fire Insurance Co., P. O. Box 1525, Providence, R. I.	As.	Aug. 1, 1923
McBee, William R. L.	The Gardiner Hall, Jr., Co., S. Willington, Conn.	Ac.	Apr. 24, 1923
McCaughey, Edward J.	51 Arlington St., Pawtucket, R. I.	Ac.	Apr. 26, 1906
McCausland, Ralph E.	Barber-Colman Co., Rockford, Ill.	As.	Apr. 12, 1911
McClellan, John	Asst. Treas. New England Southern Corp., 89 Broad St., Boston, Mass.	Ac.	Nov. 21, 1927
McConnell, Robert J.	Asst. Supt. The Naumkeag Steam Cotton Co., Salem, Mass.	Ac.	Oct. 25, 1928
McCormick, Charles A.	Treas. Chicopee Mfg. Corp., Chicopee Falls, Mass.	S.R.	Sept. 12, 1917
McCruden, James F.	Aberfoyle Manufacturing Company, Bankers Trust Building, Philadelphia, Pa.	Ac.	Apr. 6, 1925
McDuffie, Charles D.	Lincoln Mills of Alabama, 52 Chauncy St., Boston, Mass.	Ac.	Oct. 5, 1923
McDuffie, Frederic C.	Treas. Everett Mills, 141 Milk St., Boston, Mass.	Ac.	Oct. 25, 1882
McElvie, John G.	Mgr. Mobile Cotton Mills, 320 Broadway, New York City.	Ac.	June 14, 1926
McFadden, George H., & Bro.	John Austin Amory, 211 Congress St., Boston, Mass.	Sus.	Oct. 29, 1918
McFadden, J. Franklin	McFadden, Sands & Co., 115 Chestnut St., Philadelphia, Pa.	As.	Sept. 13, 1906
McFadden, Robert C.	Supt. Whitman Mills, New Bedford, Mass.	Ac.	Nov. 1, 1923
McFadden, Sands & Co.	James Lawrence, 60 Batterymarch St., Boston, Mass.	Sus.	June 28, 1918
McGowan, Frank R.	The Cotton-Textile Institute, Inc., 320 Broadway, New York City.	Ac.	Oct. 5, 1922

		Elected
McGregor, John A.	Pres. Utica Steam & Mohawk Valley Cotton Mills, Utica, N. Y.	Ac. Apr. 28, 1910
McHenry, Sidney C.	Agent, Otis Company, Ware Mill, Ware, Mass.	Ac. June 14, 1926
McIntire, Allyn B.	Pepperell Mfg. Company, 160 State St., Boston, Mass.	Ac. Oct. 25, 1928
McIntyre, Joseph B.	166 President Ave., Providence, R. I.	Ac. Sept. 11, 1912
McKennie, Bernard J.	W. C. Plunkett & Sons Co., 74 Commercial St., Adams, Mass.	Ac. Jan. 17, 1927
McKinley, William, Jr.	W. H. Langley & Co., 320 Broadway, New York City.	As. Apr. 29, 1915
McKitterick, Edward H.	Edwin Farnham Greene Co., 40 Worth St., New York City.	Ac. June 14, 1926
McLean, Earle C.	222 High St., Medford, Mass.	Ac. Jan. 17, 1927
McLoughlin, John E.	Pres. McLoughlin Textile Corp., Utica, N. Y.	Ac. Apr. 25, 1907
McLoughlin, R. P.	Treas. McLoughlin Textile Corp., Utica, N. Y.	Ac. Sept. 13, 1906
McNab, Allan	Pres. New England Southern Corp., 89 Broad St., Boston, Mass.	Ac. Sept. 11, 1912
Macintyre, A. Fergusson	Agt. Appleton Corporation, Anderson, S. C.	Ac. June 15, 1923
Mackintosh, Charles E.	Pres. & Treas. D. Mackintosh & Sons Co., Holyoke, Mass.	S.R. Aug. 1, 1923
Mackintosh, D., & Sons Co.	Charles E. Mackintosh, Pres. & Treas., Holyoke, Mass.	Sus. Aug. 1, 1923
Macy, Andrew W.	Supt. Nashawena Mills, New Bedford, Mass.	Ac. Apr. 6, 1928
Macy, Frederick B.	Frederick B. Macy & Co., 222 Union St., New Bedford, Mass.	Ac. Apr. 25, 1901
Maddox, Amos G.	1602 Oneida St., Utica, N. Y.	Ac. Oct. 18, 1900
Maguire, John P.	Pres. Textile Banking Co., Inc., 50 Union Sq., New York City.	S.R. Oct. 27, 1927
Main, Charles T.	Mill Engineer, 201 Devonshire St., Boston, Mass.	Ac. Oct. 28, 1885
Mains, Robert	66 Leonard St., New York City.	Ac. Sept. 16, 1916
Makepeace, Charles S.	Chas. R. Makepeace & Co., P. O. Box 1146, Providence, R. I.	Ac. Feb. 8, 1921
Mallory, D. S.	Treas. Industrial Rayon Corporation, 98th St. and Walford Ave., Cleveland, Ohio.	S.R. Feb. 10, 1928
Malone, Arnold T.	Joseph Noone's Sons Co., 105 Washington St., Boston, Mass.	Ac. Oct. 14, 1926
Manley, John Warren	Pres. Sayles Finishing Plants, Inc., Saylesville, R. I.	Ac. Apr. 30, 1909
Manson, Ernest T.	Edward H. Best & Co., 222 Purchase St., Boston, Mass.	As. Oct. 2, 1913

		Elected
Manville Jenckes Co.	Sus.	Mar. 18, 1918
Frederick L. Jenckes, Treas., Pawtucket, R. I.		
Marble, C. F.	As.	Mar. 6, 1925
Curtis & Marble Machine Co., 72 Cambridge St., Worcester, Mass.		
Marble, Edwin H.	S.R.	Apr. 8, 1919
Pres. Curtis & Marble Machine Co., Worcester, Mass.		
Marble, George Edwin	As.	May 1, 1924
Curtis & Marble Machine Co., 72 Cambridge St., Worcester, Mass.		
Marsh, Henry	As.	Apr. 30, 1909
Wamsutta Club, New Bedford, Mass.		
Marston, John P.	{ L.	Apr. 28, 1904
247 Atlantic Ave., Boston, Mass.		Apr. 25, 1907
Martin, Edward L.	As.	Apr. 25, 1907
Vice Pres. H. & B. American Machine Co., P. O. Box 678, Pawtucket, R. I.		
Martin, Fay H.	As.	Aug. 10, 1927
Mgr. Woonsocket Machine & Press Co., Woonsocket, R. I.		
Marvin, Charles R.	Ac.	Oct. 2, 1913
Utica Willowvale Bleaching Co., 320 Broadway, New York City.		
Mason, Albert G.	Ac.	Apr. 30, 1909
Treas. Whitman Mills, New Bedford, Mass.		
Mason, Frederic R.	Ac.	Sept. 21, 1905
2740 Park Ave., San Diego, California.		
Massasoit Mfg. Co.	Sus.	June 20, 1918
P. S. Palmer, Treas., Fall River, Mass.		
Mauran, Frank, Jr.	Ac.	Jan. 17, 1927
Crompton Co., West Warwick, R. I.		
Mayor, John W.	As.	Sept. 30, 1908
Thomas Mayor & Son, 26 Olney St., Providence, R. I.		
Mead, Chas. E.	Ac.	July 15, 1924
Pacific Mills, 24 Thomas St., New York City.		
Meehan, George V.	Ac.	Apr. 16, 1926
Asst. Treas. Warren Manufacturing Co., Providence, R. I.		
Mellor, Leonard H.	Ac.	Aug. 3, 1921
Supt. National Rhea Co., Putnam, Conn.		
Merchant, John S.	As.	Apr. 30, 1914
Standard Mill Supply Co., P. O. Box 1534, Providence, R. I.		
Mercier, Alfred A.	Ac.	Jan. 25, 1929
Bureau of Standards, Washington, D. C.		
Merrill, Gilbert R.	{ L.	Mar. 4, 1927
Lowell Textile Institute, Lowell, Mass.		Apr. 6, 1928
Merrimack Mfg. Co.	Sus.	May 10, 1917
Ward Thoron, Treas., 53 State St., Boston, Mass.		
Merriman, Chas. H., Jr.	Ac.	Apr. 24, 1895
Manville Co., Providence, R. I.		
Merriman, James G.	Ac.	Sept. 21, 1905
Pres. Oswego Yarn Mills, Inc., Oswego, N. Y.		
Metz, Herman A.	Ac.	Apr. 29, 1915
Pres. H. A. Metz & Co., 122 Hudson St., New York City.		
Midgley, Herbert	S.R.	Jan. 22, 1918
Pres. & Gen. Mgr. Howard Bros. Mfg. Co., Worcester, Mass.		

		Elected
Millar, J. R.	Gen. Mgr. California Cotton Mills Co., Oakland, Calif.	Ac. Oct. 29, 1918
Milliken, Earle L.	Treas. & Gen. Mgr. The Belamose Corp., Rocky Hill, Conn.	S.R. May 13, 1927
Milliken, Joseph K.	Treas. Mount Hope Finishing Co., North Dighton, Mass.	Ac. Sept. 23, 1909
Milliken, Roscoe S.	Con. Agt. Nashua Mfg. Co., Nashua, N. H.	Ac. Apr. 29, 1896
Mills, Charles F.	First National Bank of Boston, 67 Milk St., Boston, Mass.	S.R. Oct. 27, 1927
Minnick, John F.	Slater Mills, Inc., Webster, Mass.	Ac. Sept. 16, 1916
Minot, Hooper & Co.	Thomas W. Slocum, 11 Thomas St., New York City.	Sus. Jan. 1, 1919
Mitchell, John R.	Pres. Mitchell-Bissell Co., Brunswick & Hill Ave., Trenton, N. J.	{ L. Oct. 18, 1900 Apr. 27, 1905
Mitchell, Nathaniel M.	19 Park St., Easthampton, Mass.	{ L. Mar. 2, 1922 Mar. 2, 1922
Mitchell, Robert L.	Treas. Beaver Mills, 102 Worth St., New York City.	Ac. Aug. 3, 1921
Mitchell, William A.	Treas. Houston Textile Mills, Houston, Texas.	Ac. Apr. 25, 1907
Moller, Kenneth	263 Summer St., Boston, Mass.	Ac. Apr. 29, 1915
Montgomery, George M.	Pres. The Montgomery Co., Windsor Locks, Conn.	Ac. Sept. 22, 1904
Montgomery, J. R.	Chairman Board of Directors, The Montgomery Co., Windsor Locks, Conn.	Ac. Sept. 29, 1898
Montgomery Co., The	John R. Montgomery, Chairman Board of Directors, Windsor Locks, Conn.	Sus. July 17, 1917
Moody, Chas. P.	Supt. Fisher Mfg. Co., Fisherville, Mass.	Ac. Jan. 30, 1925
Moore, W. F.	Geo. E. Damon & Co., 7 Pemberton Sq., Boston, Mass.	{ L. Mar. 2, 1922 Mar. 2, 1922
Morris, Edward N.	The Lawton Mills Corp., 56 Worth St., New York City.	Ac. May 3, 1918
Morrissey, J. F.	Supt. Interlaken Mills, Harris, R. I.	Ac. May 1, 1925
Morton, Albert H.	95 Harvard St., Lowell, Mass.	Ac. Oct. 28, 1891
Morton, Charles	32 Garden St., Pawtucket, R. I.	Ac. May 3, 1918
Moss, John W.	Supt. Bourne Mills, Fall River, Mass.	Ac. Dec. 6, 1926
Mossberg, Frank	Pres. & Gen. Mgr. Mossberg Pressed Steel Corp., Attleboro, Mass.	As. May 3, 1929
Mowry, Charles D.	Rhode Island Plush Mills, Woonsocket, R. I.	Ac. Mar. 22, 1929

		Elected	
Mowry, Earl E.	Sec. J. & P. Coats (R. I.), Inc., Pawtucket, R. I.	Ac.	June 8, 1928
Mowry, Harold	Mgr. Sterling Branch, U. S. Finishing Co., Sterling, Conn.	Ac.	Apr. 27, 1905
Mowry, Leon W.	Sec. & Asst. Treas. Rhode Island Plush Mills, Woonsocket, R. I.	Ac.	Mar. 22, 1929
Mulligan, Robert	Treas. J. W. Starkweather Co., 705 Hospital Trust Bldg., Providence, R. I.	As.	May 13, 1927
Mumford, Charles M.	263 Summer St., Boston, Mass.	As.	Apr. 26, 1928
Munro, James	c/o J. H. Hanaford, 89 State St., Boston, Mass.	As.	Oct. 5, 1920
Murphy, A. A.	Sales Mgr., Industrial Rayon Corp., 521 Fifth Ave., New York City.	Ac.	May 24, 1929
Murphy, Wilfred C.	Pres. & Treas. Providence Mill Supply Co., 68 West Exchange St., Providence, R. I.	As.	Mar. 2, 1923
Murray, Joseph D.	Asst. Treas. Holmes Mfg. Co., New Bedford, Mass.	Ac.	Apr. 16, 1926
Murti, E. N.	Tanuku, West Godarari Dist., Pres'y Madras, India.	{ L.	Apr. 25, 1912 Apr. 25, 1912
Nashua Mfg. Co.	Robert Amory, Treas., 48 Franklin St., Boston, Mass.	Sus.	Aug. 11, 1917
National Aniline & Chemical Co.	W. M. Vermilye, Executive Vice Pres., 40 Rector St., New York City.	Sus.	Jan. 17, 1918
Naumkeag Steam Cotton Co.	Ernest N. Hood, Treas., Salem, Mass.	Sus.	Aug. 2, 1917
Neild, Eli	Asst. Supt. Nashawena Mills, New Bedford, Mass.	Ac.	June 14, 1926
Neild, Frank I.	Pres. Neild Mfg. Corp., New Bedford, Mass.	Ac.	May 3, 1918
Nelson, Nils V.	N. V. Nelson & Co., 93 Federal St., Boston, Mass.	As.	Oct. 14, 1926
New Bedford Spinning Co.	John Catterall, Agent, New Bedford, Mass.	Sus.	Apr. 16, 1926
Newburger, Samuel	Samuel Newburger & Co., 60 Beaver St., New York City.	As.	May 4, 1920
Newell, A. W.	Vice Pres. Hazard Cotton Co., P. O. Box 1394, Providence, R. I.	As.	May 5, 1919
Newell, Charles H.	Asst. Treas. Baltic Mills Co., 510 Turks Head Bldg., Providence, R. I.	Ac.	Dec. 1, 1921
New England Southern Corporation	Allan McNab, Pres., 89 Broad St., Boston, Mass.	Sus.	Nov. 5, 1917
Newmarket Mfg. Co.	Charles Walcott, Treas., 87 Milk St., Boston, Mass.	Sus.	Dec. 16, 1918
Newport Chemical Wks., Inc.	Elvin H. Killheffer, Vice Pres., Passaic, N. J.	Sus.	Nov. 10, 1919
Newton, Henry Arthur	Supt. Pacific Mills, Cochecho Dept., Dover, N. H.	Ac.	Apr. 24, 1923

Newton, Jewett B.	Elected	
9 Green St., Augusta, Me.	Ac.	Mar. 4, 1927
Newton, J. Edward		
Treas. Barnard Mfg. Co., Fall River, Mass.	Ac.	Sept. 16, 1916
New York Mills Corp.		
A. F. Hobbs, Vice Pres., New York Mills, N. Y.	Sus.	Feb. 10, 1920
Nichols, Charles B.		
Treas. Otis Company, Three Rivers, Mass.	Ac.	Oct. 14, 1925
Nichols, George		
Minot, Hooper & Co., 11 Thomas St., New York City.	Ac.	Sept. 11, 1916
Nichols, George		
Treas. Dwight Mfg. Co., Chicopee, Mass.	S.R.	Dec. 5, 1918
Nichols, Henry G.		
Pres. Otis Co., 24 Milk St., Boston, Mass.	Ac.	June 1, 1923
Nichols, Henry W.		
Principal, Bradford Durfee Textile School, Durfee and Banks Sts., Fall River, Mass.	Ac.	Oct. 20, 1917
Nichols, Howard S. O.		
Treas. Great Falls Mfg. Co., 53 State St., Boston, Mass.	Ac.	Sept. 29, 1911
Nichols, Rodman A.		
Nichols & Read, 12 Pearl St., Boston, Mass.	As.	May 3, 1918
Nivling, W. A.		
Huron Milling Co., 73 Tremont St., Boston, Mass.	As.	May 4, 1920
Noone, Albert W.		
Joseph Noone's Sons Co., Peterboro, N. H.	Ac.	Sept. 26, 1901
Norton, William A.		
Manville Jenckes Company, Georgiaville, R. I.	Ac.	Oct. 27, 1927
Nyanza Mills		
Nathaniel F. Ayer, Treas., 77 Franklin St., Boston, Mass.	Sus.	Jan. 14, 1919
Odenheimer, S.		
Pres. Lane Cotton Mills Co., New Orleans, La.	Ac.	Oct. 25, 1893
O'Donnell, J. Joseph		
P. T. Jackson Co., 41 Pearl St., Boston, Mass.	As.	Apr. 15, 1927
O'Leary, Arthur L.		
Treas. Lambeth Rope Corp., P. O. Box 760, New Bedford, Mass.	As.	Apr. 16, 1926
O'Malley, Charles J.		
Pres. O'Malley Advertising & Selling Co., 244 Washington St., Boston, Mass.	{ L.	Apr. 24, 1913 Sept. 7, 1913
Osborn, James E.		
Treas. Merchants Mfg. Co., Fall River, Mass.	Ac.	Apr. 27, 1916
Osborne, G. Gordon		
Lowell Textile Institute, Lowell, Mass.	Jr. Tech.	Oct. 27, 1927
Oswald, John G.		
Gen. Mgr. Nyanza Mills, Woonsocket, R. I.	Ac.	June 1, 1923
Otis Company		
Henry G. Nichols, Pres., 24 Milk St., Boston, Mass.	Sus.	Nov. 12, 1917
Otto, Hans		
c/o Heinrich Otto, Heichenbach, a.d. Fils, Württemberg, Germany.	Ac.	Oct. 3, 1924
Owen, Charles D.		
Treas. Beacon Mfg. Co., New Bedford, Mass.	S.R.	Nov. 7, 1917
Owen, Harry C.		
Vice Pres. Industrial Trust Co., Providence, R. I.	As.	May 1, 1925

		Elected	
Pacific Mills		Sus.	May 18, 1917
Alfred E. Colby, Treas., 24 Federal St., Boston, Mass.			
Paige, Walter H.		Ac.	Nov. 23, 1925
Supt. York Mfg. Co., Saco, Me.			
Paine, Sidney B.¹		Hon.	Apr. 16, 1926
59 Hancock St., Auburndale, Mass.			
Paine, Sidney L.		Tech.	Apr. 15, 1927
8 Cliff Street, Winchester, Mass.			
Paine, Sidney S.		Ac.	Apr. 27, 1916
Pres. The Textile Development Co., 80 Federal St., Boston, Mass.			
Paine, Walter R.		As.	May 3, 1929
Barrington Associates, Springfield, Mass.			
Palmer, P. S.		S.R.	June 20, 1918
Treas. Massasoit Mfg. Co., Fall River, Mass.			
Palmer, Townsend		Ac.	Apr. 30, 1909
Sec.-Treas. The I. E. Palmer Co., Middletown, Conn.			
Park, Clifton D.		As.	Oct. 25, 1928
Carrier Engineering Corp., 1011 Statler Bldg., Boston, Mass.			
Parker, J. Earle		Ac.	Feb. 2, 1923
Treas. Acadia Mills, 78 Chauncy St., Boston, Mass.			
Parker, Wilder & Co.		Sus.	Nov. 23, 1918
Wm. D. Judson, 78 Leonard St., New York City.			
Parker, Winthrop		Ac.	Sept. 30, 1908
597 Chestnut St., Manchester, N. H.			
Parks-Cramer Co.		Sus.	May 11, 1917
R. S. Parks, Treas., Fitchburg, Mass.			
Parks, R. S.		S.R.	May 11, 1917
Parks-Cramer Co., Fitchburg, Mass.			
Parsons, Brackett		Ac.	Apr. 24, 1923
Asst. Treas. Lewiston Bleachery & Dye Works, 160 State St., Boston, Mass.			
Parsons, Winslow A.		Ac.	May 3, 1918
Treas. Richmond Lace Wks., 99 Chauncy St., Boston, Mass.			
Patterson, John L.		Ac.	Apr. 13, 1911
P. O. Box 1481, Richmond, Va.			
Payne, George F.		Ac.	Apr. 28, 1910
300 Broad St., Pawtucket, R. I.			
Payson, C. C.		As.	Sept. 30, 1914
Clark, Payson & Co., 19 Pearl St., Boston, Mass.			
Peabody, W. Rodman		S.R.	Aug. 1, 1923
Treas. Suncook Mills, 70 State St., Boston, Mass.			
Pearson, John A.		Ac.	Apr. 30, 1914
The Esmond Mills, 21 East 26th St., New York City.			
Pease, Chester C.		Ac.	Feb. 10, 1928
Agent, Otis Company, Columbian Mills, Greenville, N. H.			
Pedler, William A.		Ac.	Apr. 30, 1914
Agt. Acadia Mills, Lawrence, Mass.			
Pennock, Gilbert V.		As.	Sept. 11, 1915
Eustis, Pennock & Co., 118 Old Colony Ave., Wollaston, Mass.			

¹ Member of the Association since April 24, 1895.

			Elected
Pepler, Herbert H.	Agt. Paco Mfg. Co., Danielson, Conn.	Ac.	June 5, 1925
Pepperell Mfg. Co.	Russell H. Leonard, Treas., 160 State St., Boston, Mass.	Sus.	Dec. 17, 1917
Pepperell, William S.	Treas. Warren Mfg. Co., P. O. Box 1384, Providence, R. I.	Ac.	Mar. 2, 1922
Perkins, John A.	Agt. Harmony Mills, Cohoes, New York.	Ac.	Apr. 28, 1910
Perkins, Ralph C.	23 Pleasant St., So. Dartmouth, Mass.	Ac.	Apr. 28, 1910
Perry, Joseph L.	Supt. Suncook Mills, Suncook, N. H.	Ac.	Apr. 6, 1928
Peugnet, Ramsay	Sec. U. S. Testing Co., Inc., 468 Fourth Ave., New York City.	Ac.	Apr. 17, 1908
Phillips, William D.	Supt. Naumkeag Steam Cotton Co., 347 Lafayette St., Salem, Mass.	Ac.	Apr. 30, 1914
Phinney, Morris	American Glanzstoff Corp., Providence, R. I.	As.	Oct. 25, 1928
Pierce, Albert R.	Supt. Pierce Mfg. Corp., New Bedford, Mass.	Ac.	Oct. 5, 1899
Pierce, Andrew G., Jr.	Treas. Pierce Mfg. Corp., P. O. Box 733, New Bedford, Mass.	Ac.	Apr. 23, 1895
Pierce Mfg. Corp.	Andrew G. Pierce, Jr., Treas., New Bedford, Mass.	Sus.	Dec. 3, 1917
Piggott, E. B. G.	Asst. Treas. Waypoysset Mfg. Co., Central Falls, R. I.	S.R.	Jan. 28, 1919
Pilgrim Mills	Arthur C. Homer, Treas., Fall River, Mass.	Sus.	July 17, 1917
Pinckney, Henry R.	Supt. Lincoln Bleachery & Dye Works, Lonsdale, R. I.	Ac.	June 14, 1926
Pingree, A. E.	Supt. Ponemah Mills, Taftville, Conn.	Ac.	Apr. 4, 1924
Pond Lily Co., The	1475 Whalley Ave., New Haven, Conn.	Sus.	Aug. 21, 1917
Ponemah Mills	J. Arthur Atwood, Treas., 930 Hospital Trust Bldg., Providence, R. I.	Sus.	Mar. 18, 1918
Porteous, John	Pres. The Lawton Mills Corp., Plainfield, Conn.	Ac.	May 3, 1918
Potomska Mills Corp.	Chas. E. Brady, Treas., New Bedford, Mass.	Sus.	Nov. 21, 1918
Potter, Carl H.	Green River Mfg. Co., Tuxedo, N. C.	Ac.	Nov. 5, 1918
Potter, Charles H.	Gen. Supt. The Montreal Cottons, Ltd., Valleyfield, Quebec, Canada.	Ac.	Apr. 25, 1901
Pratt, Edward S.	Vice Pres. Samson Cordage Wks., 88 Broad St., Boston, Mass.	Ac.	Apr. 26, 1917
Prentice, Robert W.	Treas. Butler, Prentice & Co., Inc., 320 Broadway, New York City.	Ac.	Apr. 24, 1913
Prest, George E.	Agt. Suncook Mills, Suncook, N. H.	Ac.	Apr. 24, 1902

	Elected	
Pritchett, Henry Smith, LL.D. The Carnegie Foundation, 522 Fifth Ave., New York City.	Hon. Sept. 26, 1901	
Prosser, Isaac T. Mgr. Chicopee Mfg. Corp., Chicopee Falls, Mass.	Ac. Apr. 25, 1912	
Puckett, Henry B. Asst. Treas. Goodyear Cotton Mills, Inc., Goodyear, Conn.	Ac. Oct. 14, 1926	
Putnam, G. Endicott Sanderson & Porter, 52 William St., New York City.	As. Aug. 10, 1927	
Queen City Cotton Co. Andrew McLean Young, Treas., Burlington, Vt.	Sus. Apr. 24, 1918	
Quinebaug Co., The Frank B. Ricketson, Asst. Treas., Danielson, Conn.	Sus. July 20, 1918	
Quinn, Frederick J. 100 Centre St., Brookline, Mass.	Ac. Apr. 26, 1906	
Quinn, Patrick H. Treas. Warwick Lace Wks., Riverpoint, R. I.	Ac. May 3, 1918	
Quinton, W. W. Agt. Lockwood Co., Waterville, Me.	Ac. July 15, 1923	
Rae, Benjamin G. Treas. Futurity Thread Mfg. Co., 80 Bridge St., Newton, Mass.	Ac. Apr. 29, 1915	
Raeburn, Andrew Sec. New Bedford Cotton Mfrs. Assn., Masonic Bldg., New Bedford, Mass.	Ac. Apr. 24, 1923	
Ramsdell, Theodore E. Agt. Monument Mills, Housatonic, Mass.	Ac. Apr. 23, 1903	
Raymond, Charles P. Chas. P. Raymond Textile Service, Inc., 294 Washington St., Boston, Mass.	As. Apr. 29, 1915	
Reaber, Karl, Jr. R. F. D. No. 1, Apponaug, R. I.	Jr. Tech. Jan. 17, 1927	
Reardon, John F. Agt. Grosvenor-Dale Co., No. Grosvenor-Dale, Conn.	Ac. Sept. 8, 1922	
Redman, H. Stewart 202 Westford St., Lowell, Mass.	Ac. Apr. 27, 1916	
Rennie, T. H. Vice Pres. Avondale Mill, Pell City, Ala.	Ac. Oct. 18, 1900	
Reoch, Robert A. S. Gen. Supt. Pacific Mills, Print Works Dept., Lawrence, Mass.	Ac. Sept. 17, 1910	
Reynolds, Arthur W. Lawton Mills Corp., 77 Franklin St., Boston, Mass.	Ac. June 14, 1926	
Reynolds, Frank W. Vice Pres. Lockwood Greene, Engineers, Inc., 24 Federal St., Boston, Mass.	As. Sept. 27, 1917	
Reynolds, Frederic W. 25 Walnut St., Stoughton, Mass.	Ac. Apr. 26, 1900	
Reynolds, Harrison G. Pepperell Mfg. Company, 160 State St., Boston, Mass.	Ac. Apr. 6, 1928	
Richardson, Charles O. Warwick Mills, 201 Devonshire St., Boston, Mass.	Ac. Apr. 25, 1912	

		Elected
Richardson, E. R.	Treas. H & B American Machine Co., P. O. Box 678, Pawtucket, R. I.	Ac. Apr. 13, 1911
Richardson, Harry	Supt. Aldrich Bros. Co., Moosup, Conn.	Ac. Nov. 3, 1921
Richmond, Lawrence	Asst. Treas. Crompton Company, Arctic, R. I.	Ac. Jan. 30, 1925
Ricketson, Frank B.	Asst. Treas. The Quinebaug Co., Providence, R. I.	Ac. Apr. 13, 1911
Riley, Charles E.	Pres. H & B American Machine Co., 161 Devonshire St., Boston, Mass.	Ac. Apr. 25, 1888
Riley, Richard G.	Supt. King Philip Mills, Fall River, Mass.	Ac. Apr. 25, 1907
Rimmer, Joseph W.	H. & B. American Machine Co., Pawtucket, R. I.	As. Oct. 25, 1928
Ritter, William H.	Asst. Sec. Chicopee Mfg. Corp., 266 George St., New Brunswick, N. J.	{ L. May 3, 1918 June 15, 1918
Rivitz, Hiram S.	Pres. Industrial Rayon Corporation, 98th St. and Walford Ave., Cleveland, Ohio.	S.R. Feb. 10, 1928
Roberts, Joseph	P. O. Box 309, Fall River, Mass.	Ac. May 3, 1918
Robertson, Edgar A.	The Montreal Cottons, Ltd., Montreal, Canada.	Ac. Mar. 22, 1929
Robertson, George W.	Gen. Supt. Riverside & Dan River Cotton Mills, Inc., Danville, Va.	Ac. Apr. 26, 1906
Robertson, William H.	Treas. The Robertson Bleachery & Dye Wks., Inc., New Milford, Conn.	Ac. Sept. 16, 1916
Robinson, C. M.	Agt. The Wauregan Co., Wauregan, Conn.	Ac. June 29, 1920
Rockwell, Foster	Smith, Graham & Rockwell, 50 Broadway, New York City.	As. Mar. 6, 1925
Rockwood, George I.	Rockwood Sprinkler Co., 38-56 Harlow St., Worcester, Mass.	{ L. Apr. 25, 1901 Apr. 25, 1901
Rodman, Lee	Pres. & Treas. Indiana Cotton Mills, Cannelton, Ind.	Ac. Sept. 17, 1910
Rogers, Leon B.	Treas. Rogers Fibre Co., 210 Lincoln St., Boston, Mass.	As. Oct. 20, 1917
Rooney, George W.	Supt. New Hampshire Spinning Mills, 31 Canal St., Penacook, N. H.	Ac. Sept. 30, 1914
Rose, Harry	Pacific Mills, Lawrence, Mass.	Ac. Apr. 6, 1928
Rousmaniere, John E.	Lawrence & Co., 24 Thomas St., New York City.	Ac. Apr. 13, 1911
Rowe, F. E., Jr.	Saco-Lowell Shops, 147 Milk St., Boston, Mass.	As. Apr. 24, 1923
Rowley, Frank G.	260 Central Ave., Pawtucket, R. I.	{ L. Oct. 20, 1917 Nov. 20, 1917
Rudloff, John A.	Whitman Mills, New Bedford, Mass.	Ac. June 5, 1925

		Elected	
Rusden, E. A.	Pres. The Textile-Finishing Machinery Co., 83 Exchange Pl., Providence, R. I.	As.	Sept. 21, 1905
Russell, Howard I.	Russell Mfg. Co., Manchester, N. H.	Ac.	Apr. 13, 1911
Saco-Lowell Shops	D. F. Edwards, Pres., 147 Milk St., Boston, Mass.	Sus.	May 18, 1917
Safford, Arthur Truman	66 Broadway, Lowell, Mass.	Ac.	Nov. 12, 1919
Sagar, Alfred	Treas. Bolton Worsted Mill, Inc., Methuen, Mass.	Ac.	Apr. 24, 1902
Salisbury, Everett E.	Agt. Atlantic Mills, Providence, R. I.	Ac.	Sept. 30, 1908
Sanborn, W. K.	Supt. American Net & Twine Co., R. W. Lord Mill, West Kennebunk, Me.	Ac.	Apr. 25, 1907
Sanford, Pardon B.	Supt. Chalmers Knitting Co., Amsterdam, N. Y.	Ac.	Oct. 2, 1902
Saraiya, Anandji L.	35 Mt. Vernon Street, Lowell, Mass.	Jr. Tech.	Feb. 10, 1928
Saulnier, E. T.	Gen. Supt. Pepperell Mfg. Co., Biddeford, Me.	Ac.	Aug. 10, 1927
Schaellibaum, Robert	11 W. Vance St., Charlotte, N. C.	{ L.	Sept. 22, 1904 Sept. 22, 1904
Schloss, Frederick H.	Pres. & Gen. Mgr. Darlington Textile Co., Pawtucket, R. I.	Ac.	Jan. 11, 1926
Scott, David C.	Henry L. Scott & Co., P. O. Box 963, Providence, R. I.	As.	May 4, 1920
Scull, Frank R.	Dir. of Sales, Du Pont Rayon Company, 2 Park Ave., New York City.	As.	Aug. 10, 1927
Seabury, Arthur G.	Treas. New Bedford Shuttle Co., New Bedford, Mass.	As.	Apr. 16, 1926
Seabury, Dwight	Dwight Seabury Co., 12 East Ave., Pawtucket, R. I.	As.	Apr. 25, 1901
Seaton, Thomas J.	Vice Pres. & Supt. The Floyd Cranska Co., Moosup, Conn.	Ac.	Nov. 1, 1923
Selley, William H.	Supt. The Lawton Mills Corp., Plainfield, Conn.	Ac.	Sept. 30, 1927
Sergeson, Allan M.	R. Sergeson & Co., Philadelphia, Pa.	As.	June 5, 1925
Shackelford, Harry W.	Supt. Danvers Bleachery, Peabody, Mass.	Ac.	Apr. 6, 1928
Shaw, A. F.	Pres. Greenville Finishing Co., Greenville, R. I.	S.R.	June 14, 1926
Shaw, Benjamin C.	Asst. Agt. Otis Co., Three Rivers, Mass.	Ac.	Oct. 29, 1918
Shaw, John F.	Supt. Dwight Mfg. Co., Somersworth, N. H.	Ac.	Apr. 16, 1926
Shawmut Mills	Richard B. Chace, Treas., Fall River, Mass.	Sus.	Dec. 3, 1918

		Elected	
Sheldon, Arthur N.	As.	Sept. 13, 1906	
F. P. Sheldon & Son, 1009 Hospital Trust Bldg., Providence, R. I.			
Shockley, U. Morris	Ac.	Aug. 10, 1927	
Vice Pres. B. B. & R. Knight Corp., 88 Worth St., New York City.			
Shove, W. Frank	Ac.	Sept. 22, 1904	
Treas. Pocasset Mfg. Co., Fall River, Mass.			
Simonds, Henry G.	Ac.	Apr. 16, 1926	
Pacific Mills, 24 Federal St., Boston, Mass.			
Simonds, Nathaniel G.¹	Hon.	Oct. 25, 1928	
12 Pickman St., Salem, Mass.			
Skedgell, John A.	Ac.	Mar. 22, 1929	
Joseph Bancroft & Sons Co. of Pa., Reading, Pa.			
Skinner, John	Ac.	Apr. 26, 1906	
Treas. Harmony Mills, Cohoes, N. Y.			
Slocum, Charles P.	S.R.	Mar. 2, 1918	
Corn Products Refining Co., 47 Farnsworth St., Boston, Mass.			
Slocum, Thomas W.	S.R.	Jan. 1, 1919	
Minot, Hooper & Co., 11 Thomas St., New York City.			
Smith, Abbott P.	As.	Sept. 13, 1906	
791 Purchase St., New Bedford, Mass.			
Smith, Albert E.	Ac.	Dec. 7, 1923	
Agt. New Bedford & Agawam Finishing Co., East Wareham, Mass.			
Smith, Archer J.	Ac.	Apr. 26, 1906	
Pres. The American Mills Co., Waterbury, Conn.			
Smith, D. Allen	S.R.	Oct. 18, 1923	
Mgr. Alexander Sprunt & Son, Inc., 45 Franklin St., Boston, Mass.			
Smith, Frederick K.	Ac.	Apr. 24, 1923	
Frank L. Andrews & Son Assoc., Fall River, Mass.			
Smith, Henry Kay	{ L.	Oct. 4, 1907	
500 East 6th St., Jamestown, N. Y.		Jan. 17, 1927	
Smith, J. Foster	Ac.	May 3, 1918	
Agt. Naumkeag Steam Cotton Co., Salem, Mass.			
Smith, Robert P.	As.	Apr. 24, 1923	
Smith, Drum & Co., Alleghany Ave. & 5th St., Philadelphia, Pa.			
Smith, Thomas Henry	Ac.	Apr. 30, 1884	
500 East 6th St., Jamestown, N. Y.			
Smith, William	Ac.	May 3, 1921	
Prin. New Bedford Textile School, New Bedford, Mass.			
Smith, William C.	Ac.	Jan. 25, 1929	
2809 Connecticut Ave., Washington, D. C.			
Smyth, Ellison A.	Ac.	Apr. 13, 1911	
Hendersonville, N. C.			
Sneddon, George	Ac.	Apr. 25, 1912	
Supt. Grinnell Mfg. Corp., New Bedford, Mass.			
Snowden, John W.	Ac.	May 3, 1929	
The Stead & Miller Co., Philadelphia, Pa.			
Snowden, George L.	S.R.	Apr. 26, 1928	
Mgr. Cotton Dept. H. Hentz & Company, 60 Beaver St., New York City.			

¹ Member of the Association since April 27, 1898.

		Elected	
Stone, Malcolm B.	Treas. Ludlow Mfg. Associates, 80 Federal St., Boston, Mass.	Ac.	Apr. 25, 1912
Storrow, Charles & Co.	Edward C. Storrow, 602 Exchange Bldg., Boston, Mass.	Sus.	Mar. 6, 1925
Storrow, E. C.	Charles Storrow & Co., 602 Exchange Bldg., Boston, Mass.	S.R.	Mar. 6, 1925
Strang, James	Saco-Lowell Shops, 147 Milk St., Boston, Mass.	As.	Oct. 28, 1897
Straw, William Parker.	Wellington, Sears & Co., 65 Worth St., New York City.	Ac.	Oct. 4, 1907
Strongman, John B.	Treas. City Mfg. Corp., New Bedford, Mass.	Ac.	Apr. 26, 1917
Sturtevant, Harold B.	Asst. Supt. Bellman Brook Bleaching Co., Fairview, N. J.	Ac.	Oct. 3, 1924
Sullivan, John	Agt. Taber Mill, New Bedford, Mass.	Ac.	Apr. 27, 1899
Summersby, George	Treas. Boston Mfg. Co., 48 Franklin St., Boston, Mass.	Ac.	Sept. 21, 1925
Summersby, William C.	Supt. The Boston Mfg. Co., Waltham, Mass.	Ac.	July 31, 1928
Suncook Mills	W. Rodman Peabody, Treas., 70 State St., Boston, Mass.	Sus.	Aug. 1, 1923
Sweet, Chas. A.	Wellington, Sears & Co., 65 Worth St., New York City.	Ac.	Sept. 21, 1925
Swift, Arthur Clinton	Gen. Mgr. Sharp Manufacturing Co., New Bedford, Mass.	Ac.	Apr. 6, 1923
Swift, E. Kent	Treas. Whitin Machine Works, Whitinsville, Mass.	S.R.	Nov. 1, 1918
Swope, Gerard	Pres. General Electric Co., 120 Broadway, New York City.	S.R.	May 24, 1917
Taber, Frederick	Pres. Taber Mill, New Bedford, Mass.	Ac.	Apr. 26, 1906
Taber Mill	John Sullivan, Agent, New Bedford, Mass.	Sus.	May 17, 1917
Takatsuji, Narazo	Karasumaru-dori Imadegawaagaru, Kyoto, Japan.	Ac.	Apr. 17, 1908
Tarr, Henry M.	Traffic Mgr. Textile Traffic Ass'n, 13 Market Sq., Providence, R. I.	Ac.	June 2, 1922
Taylor, Aldrich	Ray D. Lillibridge, Inc., 8 West 40th St., New York City.	Ac.	Apr. 26, 1928
Taylor, Daniel L.	Traffic Mgr. Pacific Mills, 24 Federal St., Boston, Mass.	Ac.	June 2, 1922
Taylor, Havila B.	Chadwick Station, Box 151, Charlotte, N. C.	Ac.	Oct. 29, 1918
Taylor, James W.	Agt. Fuld & Hatch Knitting Co., P. O. Box 86, Cohoes, N. Y.	Ac.	Oct. 26, 1892
Taylor, Samuel	Supt. Bristol Mfg. Co., New Bedford, Mass.	Ac.	Oct. 1, 1903
Temple, Chas. S.	Gore-Temple Company, 178 Federal St., Boston, Mass.	S.R.	Oct. 27, 1927

		Elected
Tenney, Ashton M.	Ac.	Dec. 21, 1928
American Bemberg Corp., 180 Madison Ave., New York City.		
Textile Banking Co., Inc.	Sus.	Oct. 27, 1927
John P. Maguire, Pres., 50 Union Sq., New York City.		
Textile Development Co., The	Sus.	May 1, 1925
Sidney S. Paine, Pres., 80 Federal St., Boston, Mass.		
Thatcher, Albert G.	Ac.	Apr. 27, 1916
Chairman of Board, Standard-Coosa-Thatcher Co., Philadelphia, Pa.		
Thayer, Gay D.	As.	Apr. 25, 1907
82 Elm St., Worcester, Mass.		
Thayer, Nathaniel N.	As.	Apr. 13, 1911
Barry, Thayer & Co., 30 Kilby St., Boston, Mass.		
Thoma, M. Frederick	Ac.	Jan. 17, 1927
Fitchburg Yarn Co., 520 Main St., Fitchburg, Mass.		
Thomas, Norman T.	Ac.	Oct. 16, 1919
262 Melrose St., Melrose, Mass.		
Thompson, Albert W.	Ac.	Apr. 30, 1909
Parks-Cramer Co., 1102 Old South Bldg., Boston, Mass.		
Thompson, Gilbert T.	Ac.	Apr. 30, 1914
Pres. Berkshire Fine Spinning Associates, Inc., Adams, Mass.		
Thompson, Henry B.	Ac.	May 3, 1918
Pres. U. S. Finishing Co., 40 Worth St., New York City.		
Thompson, James O., Jr.	Ac.	Oct. 18, 1900
Agt. New Bedford Cotton Mills Corp., New Bedford, Mass.		
Thompson, Philip E.	Ac.	Feb. 5, 1926
44 Maple St., New Bedford, Mass.		
Thomson, Charles R.	Ac.	Apr. 27, 1905
Norman E. McCulloch & Co., 222 Central Ave., Pawtucket, R. I.		
Thomson, James	Ac.	Apr. 25, 1907
Asst. Treas. Dwight Mfg. Co., 53 State St., Boston, Mass.		
Thoron, Ward	Ac.	May 4, 1920
Treas. Merrimack Mfg. Co., P. O. Box 5209, Boston, Mass.		
Tift, Emerson B.	Ac.	Mar. 7, 1924
Supt. Harmony Mills, Cohoes, N. Y.		
Tobin, John E.	Ac.	June 4, 1919
Supt. Butler Mill, New Bedford, Mass.		
Todd, W. O.	Ac.	Oct. 18, 1900
Pres. & Treas. Pocasset Worsted Co., Inc., Thornton, R. I.		
Totokett Mfg. Co.	Sus.	July 20, 1918
Calvin H. Frisbie, Pres., Norwich, Conn.		
Tourtellot, Carl T.	Ac.	Oct. 29, 1918
Agt. Renfrew Mfg. Co., Adams, Mass.		
Towne, George W.	Ac.	Oct. 26, 1892
62 Salem St., North Andover, Mass.		
Tucker, Philip M.	Ac.	Apr. 25, 1912
Pres. Philip M. Tucker Co., 201 Devonshire St., Boston, Mass.		
Tuley, Philip S.	Ac.	Oct. 18, 1900
Pres. Louisville Cotton Mills Co., 1318 McHenry St., Louisville, Ky.		
Tunstall, Harry	Ac.	Sept. 21, 1905
12 Maple Ave., Fairhaven, Mass.		

		Elected
Turner, Chas. A.	Ac.	Mar. 7, 1924
Pres. Chester Lace Mills, Chester, Pa.		
Twiss, William D.	Ac.	Apr. 29, 1896
10 Buswell St., Lawrence, Mass.		
Underdown, Walter H.	Ac.	Sept. 23, 1909
Treas. New Bedford Cotton Mills Corp., New Bedford, Mass.		
Underwood, Chas. S.	Ac.	Jan. 11, 1924
Hunter Mfg. & Comm. Co., 58 Worth St., New York City.		
United Piece Dye Wks.	Sus.	Feb. 12, 1918
Albert Blum, Treas., Lodi, N. J.		
Van Leer, William M.	As.	Mar. 22, 1929
Van Leer & Company, Philadelphia, Pa.		
Vaughan, Wanton	Ac.	Feb. 5, 1926
Bragdon, Lord & Nagle Co., Mill Property Dept., 285 Madison Ave., New York City.		
Vermilye, Wm. M.	Ac.	Oct. 5, 1923
930 Madison Ave., Plainfield, N. J.		
Vickery, Robert G.	Ac.	June 1, 1923
Cabot Mfg. Co., 77 Franklin St., Boston, Mass.		
Viscose Co., The	Sus.	Jan. 17, 1927
C. C. Bassett, Jr., 171 Madison Ave., New York City.		
Wadleigh, Jude C.	Ac.	Oct. 26, 1892
Agt. Merrimack Mfg. Co., Lowell, Mass.		
Wagg, Frederic E.	{ L.	Mar. 2, 1922
Agt. Hill Mfg. Co., 487 Main St., Lewiston, Me.		
Walcott, Chas.	S.R.	Dec. 16, 1918
Treas. Newmarket Mfg. Co., 87 Milk St., Boston, Mass.		
Walen, E. Dean	Ac.	May 3, 1921
Agt. Worsted Dept., Pacific Mills, Lawrence, Mass.		
Walker, Edward P.	As.	Apr. 29, 1915
E. P. Walker & Co., 60 Beaver St., New York City.		
Walker, Frank A.	As.	Apr. 16, 1926
Leary & Walker, New Bedford, Mass.		
Walker, Thomas H.	Ac.	Apr. 24, 1923
Asst. Treas. Lorraine Mfg. Co., Pawtucket, R. I.		
Wallace, Robert S.	Ac.	Apr. 25, 1912
Treas. Fitchburg Yarn Co., Fitchburg, Mass.		
Walmsley, Herbert	Ac.	Sept. 30, 1908
Treas. Excelsior Quilting Co., Long Island City, N. Y.		
Walsh, Frederick T.	Ac.	Apr. 28, 1897
12 Valentine St., West Newton, Mass.		
Walsh, James J.	As.	June 1, 1923
S. D. Bush & Co., 153 Milk St., Boston, Mass.		
Wamsutta Mills	Sus.	Sept. 10, 1917
C. F. Broughton, Treas., New Bedford, Mass.		
Ward, Benjamin I.	Ac.	Sept. 30, 1908
Pres. Bellman Brook Bleachery Co., Fairview, N. J.		

		Elected
Warren Mfg. Co.	Sus.	July 20, 1918
Wm. S. Pepperell, Treas., Warren, R. I.		
Warwick Mills	Sus.	Jan. 29, 1919
Charles O. Richardson, Pres., 201 Devonshire St., Boston, Mass.		
Washburn, Frederick C.	As.	Dec. 6, 1926
Washburn, 226 North Water St., New Bedford, Mass.		
Waterman, Frank E.	Ac.	Jan. 30, 1925
Asst. Treas. Butler Mill, New Bedford, Mass.		
Watson, Clifton E.	As.	Feb. 2, 1923
Mgr. The J. H. Williams Co., Millbury, Mass.		
Wattles, Fred E.	Ac.	Oct. 5, 1899
Asst. Supt. New Hampshire Spinning Mills, Penacook, N. H.		
Watts, Ridley	Ac.	Apr. 25, 1907
Ridley Watts & Co., 44 Leonard St., New York City.		
Watts, Ridley & Co.	Sus.	Nov. 1, 1918
Ridley Watts, 44 Leonard St., New York City.		
Wauregan Co., The	Sus.	Apr. 1, 1918
W. Irving Bullard, Wauregan, Conn.		
Waypoysset Mfg. Co.	Sus.	Jan. 28, 1919
E. B. G. Piggott, Asst. Treas., Central Falls, R. I.		
Webster, Joseph W.	Ac.	Apr. 28, 1910
Treas. Grinnell Mfg. Corp., New Bedford, Mass.		
Webster, Robert C.	Ac.	June 20, 1927
Vice Pres. W. & J. Knox Net & Twine Co., Johnson and Barney Sts., Baltimore, Md.		
Weld, J. Linzee	Ac.	Apr. 6, 1928
Asst. Treas. Suncook Mills, 70 State St., Boston, Mass.		
Wellington, Sears & Co.	Sus.	Nov. 13, 1924
Harry L. Bailey, 93 Franklin St., Boston, Mass.		
Wentworth, Philip C.	As.	May 3, 1921
Treas., National Ring Traveler Co., 257 West Exchange St., Providence, R. I.		
West, Alexander S.	{ L.	Apr. 17, 1908
U. S. Gutta Pereha Paint Co., 12 Dudley St., Providence, R. I.		Apr. 17, 1915
West, Robert	Ac.	Oct. 25, 1928
Treas. Lancaster Mills, Clinton, Mass.		
West, William R.	Ac.	Sept. 22, 1896
1886 Purchase St., New Bedford, Mass.		
Whidden, William B.	As.	Nov. 23, 1925
Sales Repres. Celanese Corp. of America, 15 E. 26th St., New York City.		
Whipple, Walter	Ac.	Sept. 13, 1906
Agt. Nashua Mfg. Co., Nashua, N. H.		
Whitaker, James D.	Ac.	May 1, 1924
Agt. Lola Cotton Mills, 683 Atlantic Ave., Boston, Mass.		
Whitaker, James L.	Ac.	Sept. 21, 1905
William Whitaker & Sons, Olney, Philadelphia, Pa.		
Whitaker, Wharton	{ L.	Mar. 15, 1919
V. P. & Gen. Mgr. William H. Haskell Mfg. Co., Pawtucket, R. I.		Mar. 9, 1920

			Elected
White, Nelson D.	Gen. Mgr. N. D. White & Sons, Winchendon, Mass.	Ac.	Sept. 11, 1912
Whitehead, H. R.	Agt. Pepperell Mfg. Co., Biddeford, Me.	Ac.	July 10, 1925
Whitin, Henry T.	Pres. Paul Whitin Mfg. Co., Northbridge, Mass.	Ac.	Apr. 25, 1877
Whitin Machine Wks.	E. Kent Swift, Treas., Whitinsville, Mass.	Sus.	Nov. 1, 1918
Whitin, Paul	Treas. Paul Whitin Mfg. Co., Northbridge, Mass.	Ac.	Oct. 1, 1903
Whitin, Richard C.	Asst. Treas. Paul Whitin Mfg. Co., Northbridge, Mass.	Ac.	Jan. 11, 1926
Whiting, George H.	B. H. Dickson & Co., 141 Milk St., Boston, Mass.	As.	June 14, 1926
Whitman, Clarence, & Son, Inc.	C. Morton Whitman, Vice Pres., 21 East 26th St., New York City.	Sus.	Nov. 1, 1918
Whitman, C. Morton	Vice Pres. Clarence Whitman & Son, Inc., 21 East 26th St., New York City.	S.R.	Nov. 1, 1918
Whitman, Harold C.	Pres. The Esmond Mills, 21 East 26th St., New York City.	Ac.	Apr. 25, 1907
Whitman, Hendricks H.	Pres. Monomac Spinning Co., 78 Chauncy St., Boston, Mass.	Ac.	Apr. 29, 1915
Whitman, Malcolm D.	William Whitman Co., Inc., 25 Madison Ave., New York City.	As.	Apr. 25, 1912
Whitman, William	Nonquitt Spinning Co., P. O. Box 100, Essex Station, Boston, Mass.	Ac.	Apr. 25, 1901
Whitney, Benjamin P.	Pacific Mills, 24 Federal St., Boston, Mass.	Ac.	Oct. 25, 1928
Whittaker, John G.	Mgr. Lincoln Bleachery & Dye Works, Lonsdale, R. I.	Ac.	Apr. 17, 1908
Whittenton Mfg. Co.	John S. Farlow, Asst. Treas., 50 State St., Boston, Mass.	Sus.	Jan. 30, 1925
Whittier, W. R. B.	Treas. Whittier Mills, Chattahoochee, Ga.	Ac.	Oct. 18, 1900
Wikstrom, Olle	Boras Wafveri Aktiebolag, Boras, Sweden.	Ac.	Jan. 25, 1929
Wilkinson, William T.	Gen. Supt. Warwick Mills, W. Warwick, R. I.	Ac.	Apr. 16, 1926
Williams, Walter S.	Mount Hope Finishing Co., North Dighton, Mass.	Ac.	Apr. 30, 1909
Wilson, James A.	Pres. & Treas. J. A. Gowdey Reed & Harness Co., P. O. Box 397, Providence, R. I.	As.	June 5, 1925
Winchester, William E.	Vice Pres. Deering, Milliken & Co., Inc., 79 Leonard St., New York City.	Ac.	Apr. 24, 1902
Windle, J. H.	Selling Agt. Fales & Jenks Machine Co., Pawtucket, R. I.	As.	Oct. 5, 1920

		Elected	
Winsor, Robert	Kidder, Peabody & Co., 115 Devonshire St., Boston, Mass.	Ac.	Apr. 28, 1910
Winsper, Samuel F.	Supt. City Manufacturing Corp., New Bedford, Mass.	Ac.	May 3, 1918
Winterbottom, John W.	Supt. Nashua Mfg. Co., Nashua, N. H.	Ac.	Nov. 23, 1925
Witherbee, Rex G.	Utica Steam & Mohawk Valley Cotton Mills, 801 State St., Utica, N. Y.	Ac.	Apr. 26, 1906
Wixon, Walter James	Treas. Sterling Ring Traveler Co., 101 Lindsey St., Fall River, Mass.	As.	Nov. 10, 1922
Wonalancet Co.	James R. Everett, Vice Pres. & Gen. Mgr., 125 Summer St., Boston, Mass.	Sus.	Mar. 15, 1918
Woodman, Cyrus	14 Hubbard St., Cambridge, Mass.	Ac.	Apr. 6, 1922
Worsnop, William	Agt. Cabot Mfg. Co., Brunswick, Me.	Ac.	Nov. 1, 1923
Wylde, Harry	979 Essex St., Lawrence, Mass.	Ac.	Apr. 13, 1911
York Manufacturing Co.	Frederic C. McDuffie, Pres., 141 Milk St., Boston, Mass.	Sus.	Aug. 1, 1923
Young, Alan V.	Mgr. Hamilton Cotton Co., Hamilton, Ontario, Canada.	Ac.	Sept. 11, 1915
Young, A. McLean	Treas. Queen City Cotton Co., Burlington, Vt.	S.R.	Apr. 24, 1918
Young, Charles William	Supt. Goodyear Cotton Mills, Inc., Goodyear, Conn.	Ac.	Oct. 5, 1923
Zuill, Robert W.	Treas. Cornell Mills, Fall River, Mass.	S.R.	July 20, 1918
Zylstra, William C.	Supt. Booth Mfg. Co., New Bedford, Mass.	Ac.	June 14, 1926

RECAPITULATION OF MEMBERSHIP

BY CLASSES

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